Department of Electrical and Electronics Engineering

Mechanism of internal assessment is transparent and robust in terms of frequency and mode

The Department conducts **three internal assessment tests** at approximately 6th, 12th and 14th week respectively. The faculties are informed on the test schedule, question paper review date and reviewers. The evaluation scheme and solutions during question paper review are to be present during the meeting with the reviewers.

The question paper, solutions and the evaluation scheme are reviewed and corrections are offered by the reviewers before the final approval by the Head and reviewers allotted to the respective courses. From AY:2020-2021 Vertical Heads are assigned course QP review. Each test is intended to cover approximately one third of the syllabus. On completion of the Valuation, Scheme of valuation is discussed and Results are announced by Faculty members in their class session. The IA Test marks is uplaoded in CERP portal

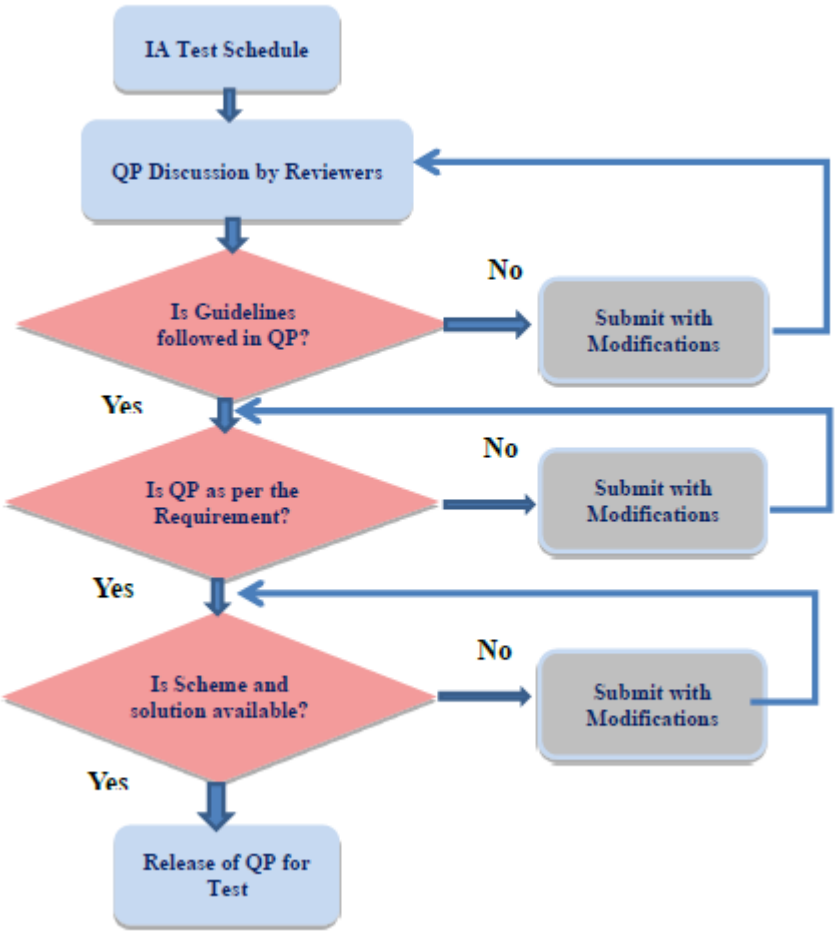


Fig:Test Process

Department of Electrical and Electronics Engineering

ACADEMIC CALENDER

Department of Electrical and Electronics Engineering

ACADEMIC CALENDER AND ADHERENCE

ATME College of Engineering
NBA ACCREDITED

Adherence for the ODD sem - AY-2019-20

Sl. No	Activity	Planned date	Implemented date	Reason
1	Commencement of ODD Semester	29th July 2019	29th July 2020, 8th Aug 2019	As planned for III and V sem. VII Semester Postponed
2	Elective List Submission	6th to 8th Aug 2019	6th to 8th Aug 2019	As planned
3	Project Synopsis submission	13th Aug 2019	13th Aug 2019	As planned
4	Technical Talk for V and VII sem	16th Aug 2019	4th Sep 2019	Postponed due to pre-occupied schedule of resource person
5	1 day Workshop on Plagiarism and LATEX	24th Aug 2019	Not conducted	Due to busy schedule of resource person the event is planned for next sem
6	Poster presentation topic submission to Activity Coordinator[Department Technical Forum] Hackathon	26th Aug 2019	Not conducted	Too many events were planned, for odd sem so couldnot take it up
7	Project-Phase-I Review-I	29th to 31st Aug 2019	3rd Sep to 6th Sep,17th Sep	Due to placement training from career prime
8	1st Internal Assessment Test	3rd Sep 2019 4th Sep 2019 5th Sep 2019	12th Sep 2019 13th Sep 2019 14th and 18th Sep 2019	Postponed as decided in HoD's meeting with Principal sir
9	Workshop for V sem	7th Sep 2019	Not conducted	
10	Project-Phase-I Review I for Non Approved Projects	6th and 7th Sep 2019	6th and 7th Sep 2019	As planned
11	Department Technical Fest	30th Sep 2019	14th Nov 2019	The event postponed due to pre- placement training was in progress for VII sem and to increase the number of particpants
12	Industry Visit for VII sem	3rd to 5th Oct 2020	Not conducted	Permission denied from KPTCL board
13	2nd Internal Assessment Test	16th Oct 2019 17th Oct 2019 18th Oct 2019	18th Oct 2019 21st Oct 2019 22nd and 23rd Oct 2019	Postponed as decided in HoD's meeting with Principal sir
14	Project-Phase-I Review II	24th to 26th Oct 2019	24th to 26th Oct 2019	As planned
15	3rd Internal Assessment Test	25th Nov 2019 26th Nov 2019 27th Nov 2019	20th , 22nd Nov 2019 23rd Nov 2019 25th Nov 2019	Rescheduled as decided in HoD's meeting with Principal sir
16	Laboratory Internal Assessment Test	28th to 30th Nov 2019	27th to 30th Nov 2019	As planned

HoD

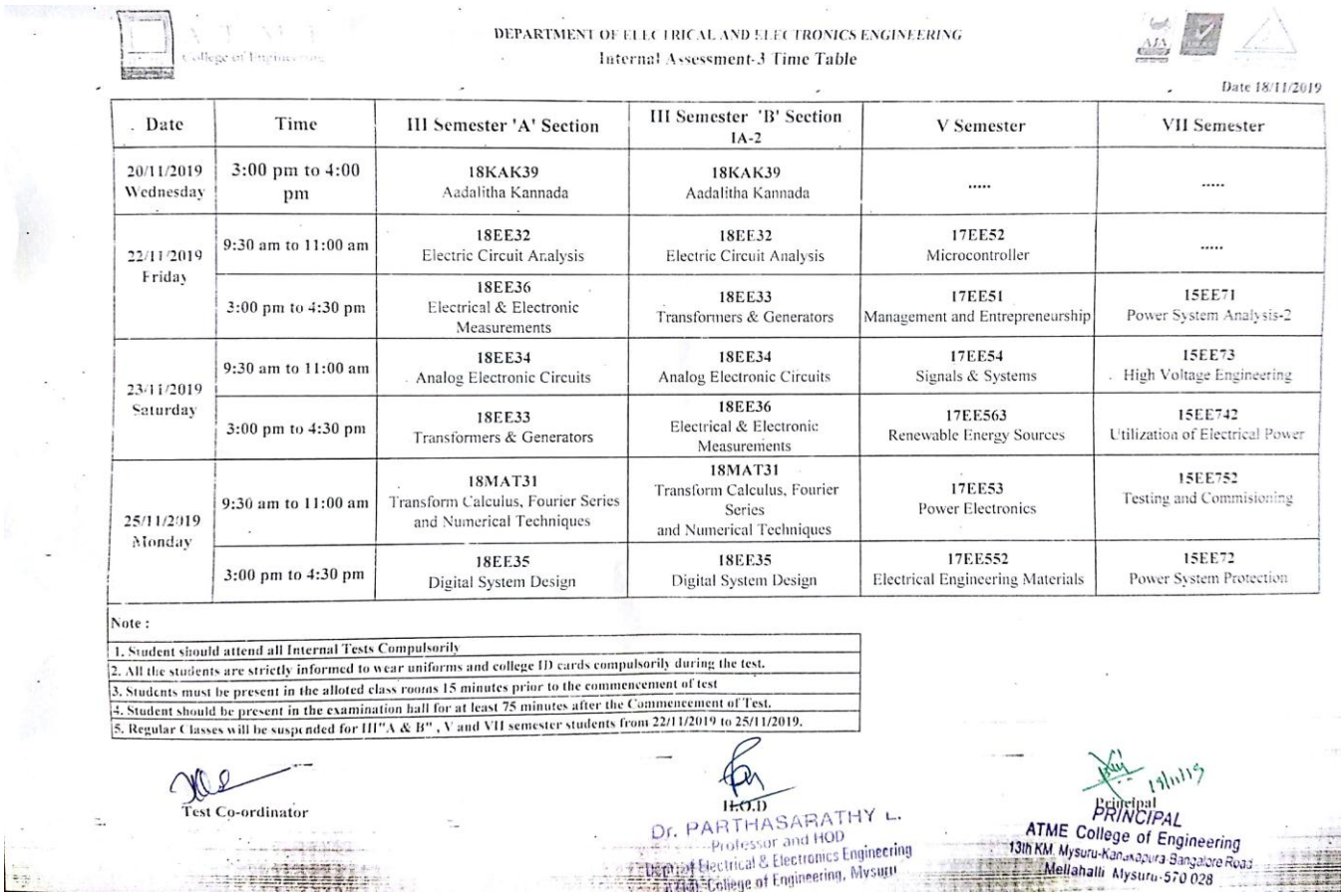
Dr. PARTHASARATHY S.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

SAMPLE TEST PROCESS:2019-2020

Department of Electrical and Electronics Engineering

IA TEST III PROCESS

A. TIME TABLE



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Internal Assessment-3 Time Table

Date 18/11/2019

Date	Time	III Semester 'A' Section	III Semester 'B' Section IA-2	V Semester	VII Semester
20/11/2019 Wednesday	3:00 pm to 4:00 pm	18KAK39 Aadalitha Kannada	18KAK39 Aadalitha Kannada	.....	.....
22/11/2019 Friday	9:30 am to 11:00 am	18EE32 Electric Circuit Analysis	18EE32 Electric Circuit Analysis	17EE52 Microcontroller	.....
	3:00 pm to 4:30 pm	18EE36 Electrical & Electronic Measurements	18EE33 Transformers & Generators	17EE51 Management and Entrepreneurship	15EE71 Power System Analysis-2
23/11/2019 Saturday	9:30 am to 11:00 am	18EE34 Analog Electronic Circuits	18EE34 Analog Electronic Circuits	17EE54 Signals & Systems	15EE73 High Voltage Engineering
	3:00 pm to 4:30 pm	18EE33 Transformers & Generators	18EE36 Electrical & Electronic Measurements	17EE563 Renewable Energy Sources	15EE742 Utilization of Electrical Power
25/11/2019 Monday	9:30 am to 11:00 am	18MAT31 Transform Calculus, Fourier Series and Numerical Techniques	18MAT31 Transform Calculus, Fourier Series and Numerical Techniques	17EE53 Power Electronics	15EE752 Testing and Commisioning
	3:00 pm to 4:30 pm	18EE35 Digital System Design	18EE35 Digital System Design	17EE552 Electrical Engineering Materials	15EE72 Power System Protection

Note :

1. Student should attend all Internal Tests Compulsorily
2. All the students are strictly informed to wear uniforms and college ID cards compulsorily during the test.
3. Students must be present in the alloted class rooms 15 minutes prior to the commencement of test
4. Student should be present in the examination hall for at least 75 minutes after the Commencement of Test.
5. Regular Classes will be suspended for III"A & B" , V and VII semester students from 22/11/2019 to 25/11/2019.

Test Co-ordinator

H.O.D
Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Principal
PRINCIPAL
ATME College of Engineering
13th KM, Mysuru-Kanakapura Bangalore Road
Mellahalli, Mysuru-570 028

Department of Electrical and Electronics Engineering

B. IA QP CIRCULAR_FACULTY MEMBERS

ATME College of Engineering
Department of Electrical and Electronics Engineering

18 November 2019

Circular

The Faculties are informed to produce question paper, solution and scheme before the IA Test-III schedule for your courses. The question papers should be as per the guide lines of the department, along with CO mapping and blooms taxonomy. The question papers should get reviewed by the reviewers allotted for your courses prior to the test in the review meeting conducted by HoD.

Also complete the valuation before **28th November 2019** and produce CO-attainment of your courses for this test.

VII SEM

Code	Title	Faculty	Reviewer-1	Reviewer-2	Test Date	Review Date
15EE71	PSA-2	VK	PL	SSR	22.11.2019 (FN)	19.11.19
15EE72	PSP	MP	RL	MS	25.11.2019 (AN)	21 .11.19
15EE73	HVE	SSR	MP	RL	23.11.2019 (FN)	20.11.19
15EE742	UEP	MS	SSR	VK	23.11.2019 (AN)	20.11.19
15EE752	T&C	KRS	RL	MP	25.11.2019 (FN)	21.11.19

V SEM

Code	Title	Faculty	Reviewer-1	Reviewer-2	Test Date	Review Date
17EE52	MC	SSR	VK	LK	22.11.2019 (FN)	19.11.19
17EE51	ME	VK	LK	SH	22.11.2019 (AN)	19.11.19
17EE54	SS	SH	VK	RKS	23.11.2019 (FN)	20.11.19
17EE563	RES	RL	MS	MP	23.11.2019 (AN)	20.11.19
17EE53	PE	RKS	PL	KRS	25.11.2019 (FN)	21.11.19
17EE552	EEM	MP	RL	RKS	25.11.2019 (FN)	21.11.19

III SEM 'A' Section

Code	Title	Faculty	Reviewer-1	Reviewer-2	Test Date	Review Date
18EE32	ECA	PL	VK	LK	22.11.2019 (FN)	19.11.19
18EE36	EEM	SH	MS	RL	22.11.2019 (AN)	20.11.19
18EE34	AEC	RKS	KRS	VK	23.11.2019 (FN)	20.11.19
18EE33	TAG	RL	KRS	MP	23.11.2019 (AN)	21.11.19
18EE35	DSD	MS	SH	RKS	25.11.2019 (AN)	21.11.19

Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

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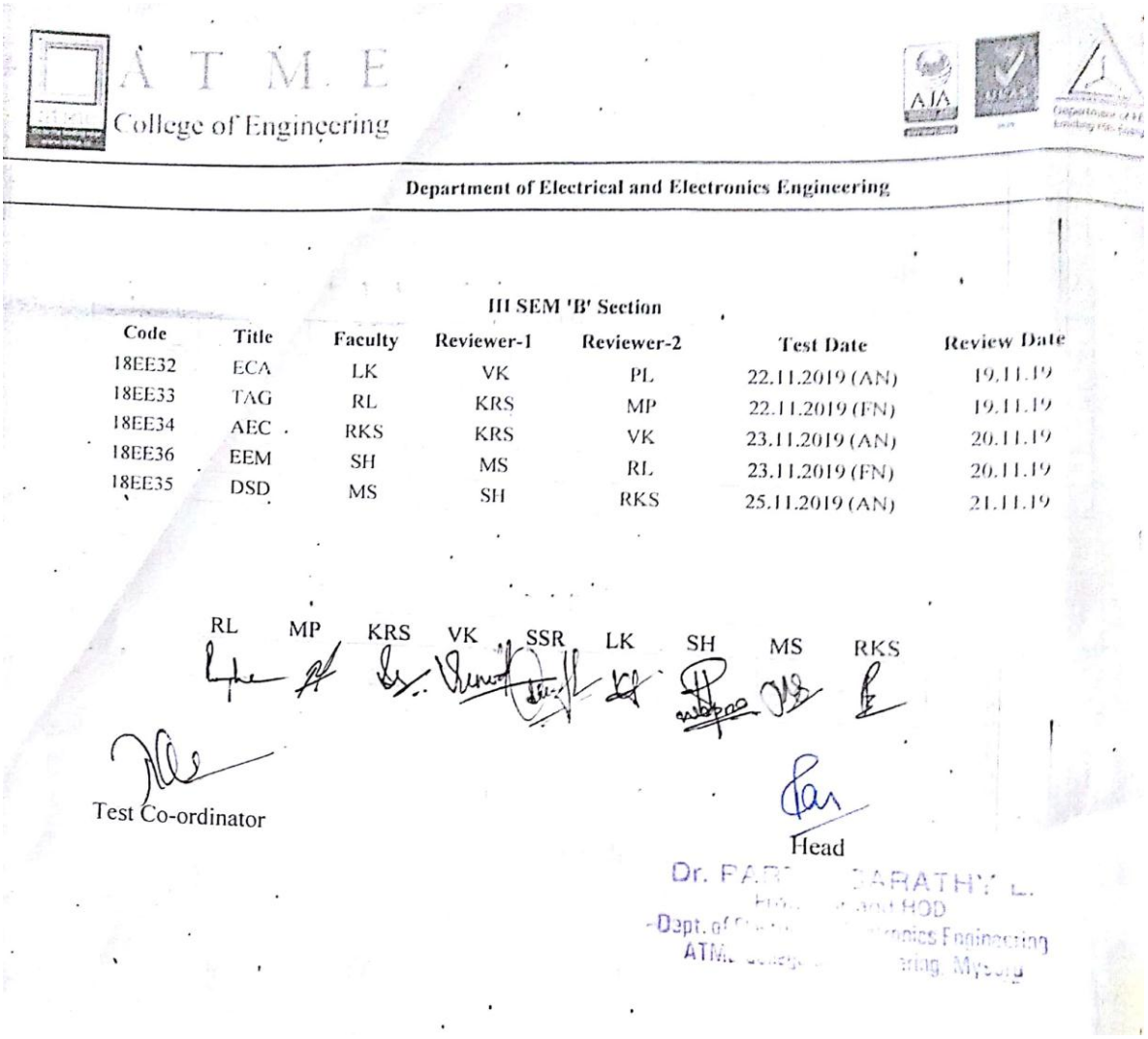
Department of Electrical and Electronics Engineering



ATME College of Engineering

Department of Electrical and Electronics Engineering

III SEM 'B' Section

Code	Title	Faculty	Reviewer-1	Reviewer-2	Test Date	Review Date
18EE32	ECA	LK	VK	PL	22.11.2019 (AN)	19.11.19
18EE33	TAG	RL	KRS	MP	22.11.2019 (FN)	19.11.19
18EE34	AEC	RKS	KRS	VK	23.11.2019 (AN)	20.11.19
18EE36	EEM	SH	MS	RL	23.11.2019 (FN)	20.11.19
18EE35	DSD	MS	SH	RKS	25.11.2019 (AN)	21.11.19

RL MP KRS VK SSR LK SH MS RKS

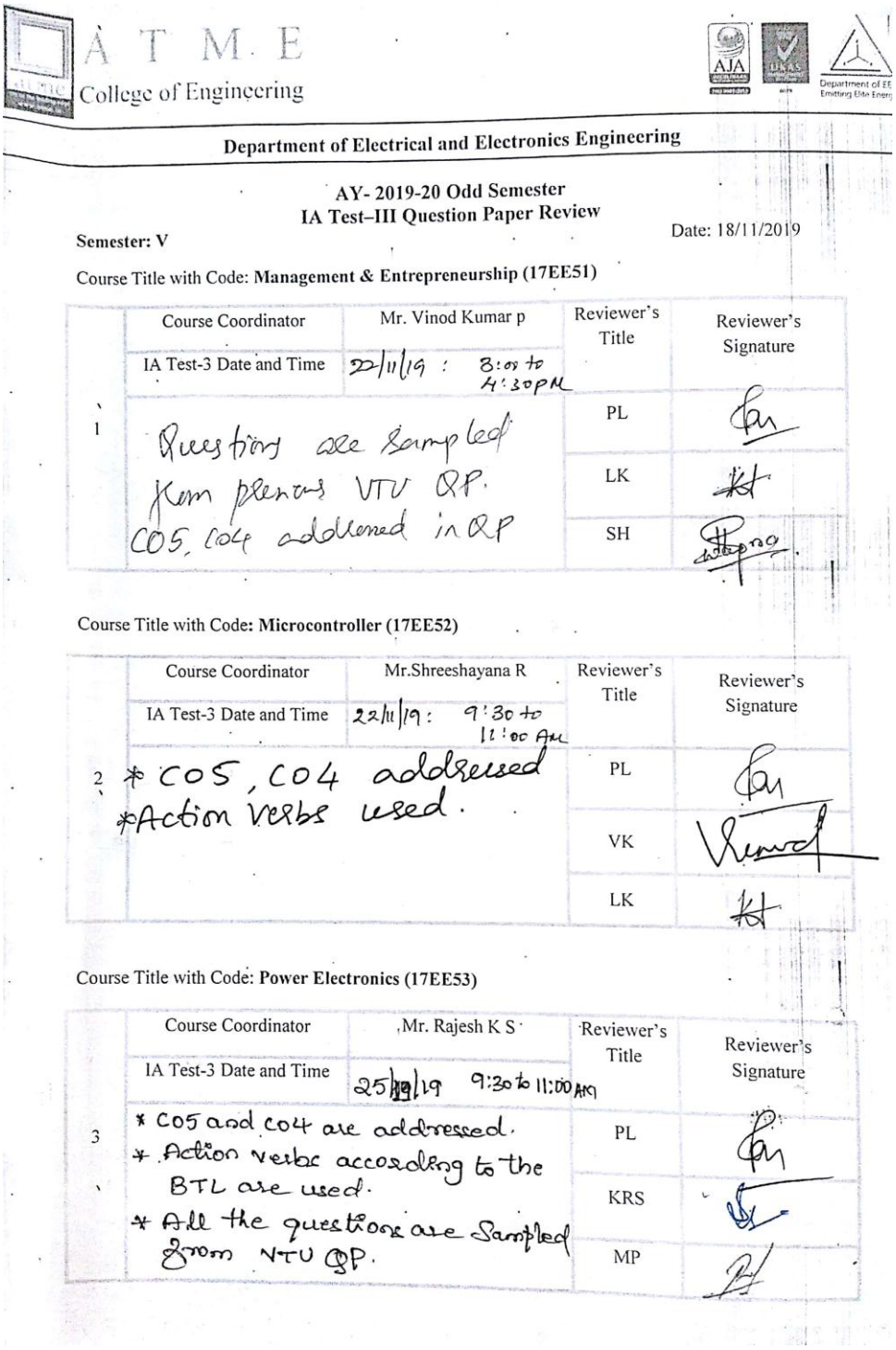
Test Co-ordinator

Head

Dr. PA... SARATHY L.
...HOD
...Dept. of ... Engineering
ATM... ...ring, Mysuru

Department of Electrical and Electronics Engineering

C. IA QP REVIEW



ATME College of Engineering

Department of Electrical and Electronics Engineering

AY- 2019-20 Odd Semester
IA Test–III Question Paper Review

Semester: V

Date: 18/11/2019

Course Title with Code: **Management & Entrepreneurship (17EE51)**

	Course Coordinator	Mr. Vinod Kumar p	Reviewer's Title	Reviewer's Signature
	IA Test-3 Date and Time	22/11/19 : 8:05 to 4:30PM		
1	Questions are sampled from previous VTU QP. CO5, CO4 addressed in QP		PL	
			LK	
			SH	

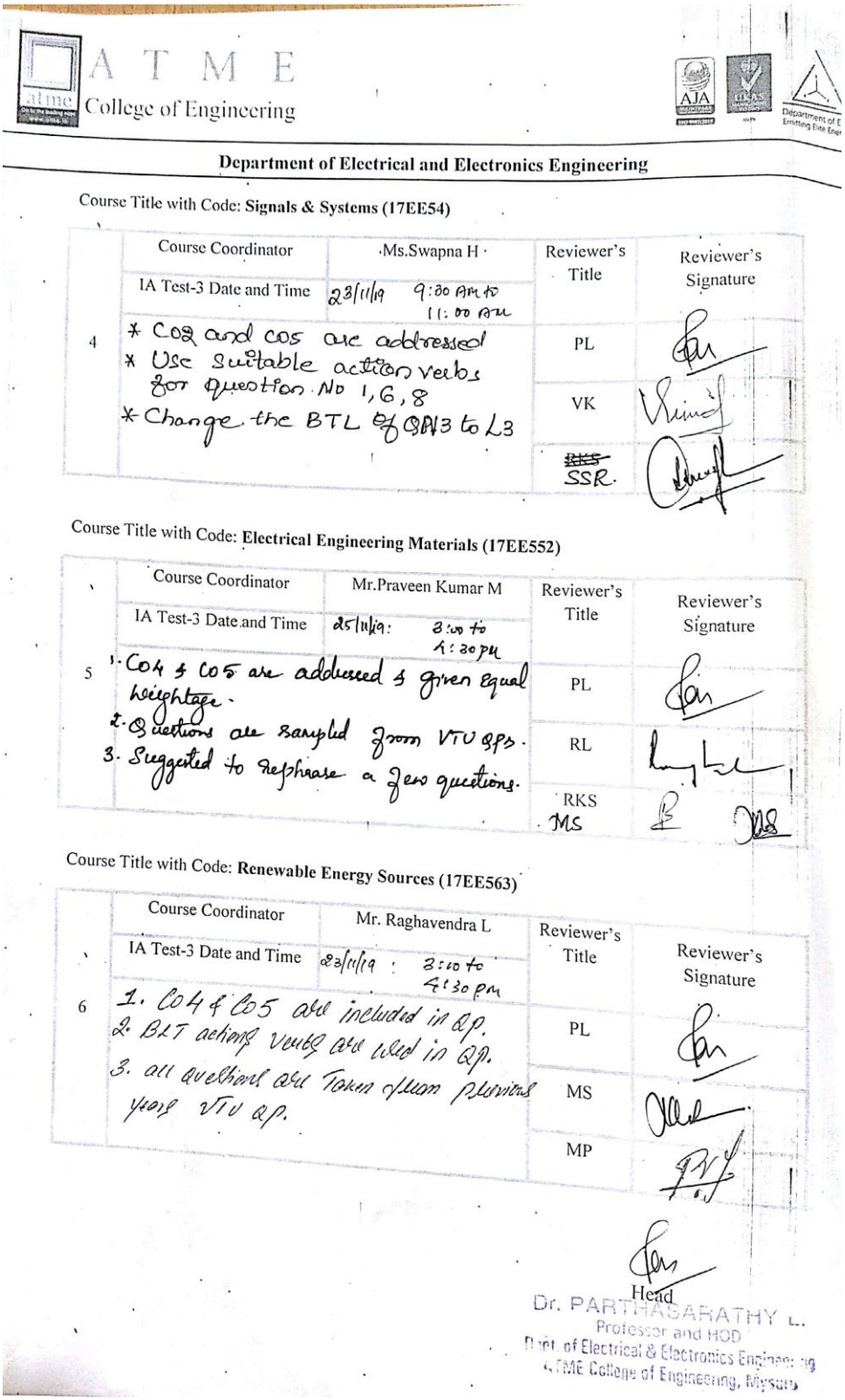
Course Title with Code: **Microcontroller (17EE52)**

	Course Coordinator	Mr.Shreeshayana R	Reviewer's Title	Reviewer's Signature
	IA Test-3 Date and Time	22/11/19 : 9:30 to 11:00 AM		
2	* CO5, CO4 addressed *Action verbs used.		PL	
			VK	
			LK	

Course Title with Code: **Power Electronics (17EE53)**

	Course Coordinator	Mr. Rajesh K S	Reviewer's Title	Reviewer's Signature
	IA Test-3 Date and Time	25/11/19 9:30 to 11:00 AM		
3	* CO5 and CO4 are addressed. * Action verbs according to the BTL are used. * All the questions are Sampled from VTU QP.		PL	
			KRS	
			MP	

Department of Electrical and Electronics Engineering



ATME College of Engineering

Department of Electrical and Electronics Engineering

Course Title with Code: **Signals & Systems (17EE54)**

	Course Coordinator	Ms.Swapna H	Reviewer's Title	Reviewer's Signature
	IA Test-3 Date and Time	23/11/19 9:30 AM to 11:00 AM		
4	* CO2 and CO5 are addressed * Use suitable action verbs for question No 1, 6, 8 * Change the BTL of Q3 to L3		PL VK ~~RKS~~ SSR.	

Course Title with Code: **Electrical Engineering Materials (17EE552)**

	Course Coordinator	Mr.Praveen Kumar M	Reviewer's Title	Reviewer's Signature
	IA Test-3 Date and Time	25/11/19: 3:00 to 4:30 PM		
5	1. CO4 & CO5 are addressed & given equal weightage. 2. Questions are sampled from VTU QPs. 3. Suggested to rephrase a few questions.		PL RL RKS MS	

Course Title with Code: **Renewable Energy Sources (17EE563)**

	Course Coordinator	Mr. Raghavendra L	Reviewer's Title	Reviewer's Signature
	IA Test-3 Date and Time	23/11/19 : 3:00 to 4:30 pm		
6	1. CO4 & CO5 are included in QP. 2. BLT action verbs are used in QP. 3. all questions are taken from previous years VTU QP.		PL MS MP	

Head

Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

D.IA INVIGILATOR ALLOTMENT

ATME College of Engineering

Invigilator Schedule for IA-III , November -2019

		FN- 9:30 am to 11:00 am	Signature	AN- 3:00 pm to 4:30 pm	Signature
22-11-2019	EE-003	Ms.Swapna H		Mr.Praveen Kumar M	
	EE-004	Mr.Vinod Kumar P		Mr.Shreeshayana R	
	EE-005	Mr.Praveen Kumar M		Mr.Vinod Kumar P	
	EE-103	Mr.Rajesh K S		Mr.Rajesh K S	
23-11-2019	EE-003	Ms.Swapna H		Mr.Praveen Kumar M	
	EE-004	Mr. Sathish K R		Mr.Shreeshayana R	
	EE-005	Mr.Vinod Kumar P		Mr Raghavendra L	
	EE-103	Mr.Rajesh K S		Ms.Swapna H	
25-11-2019	EE-003	Ms.Swapna H		Mr.Praveen Kumar M	
	EE-004	Mr.Vinod Kumar P		Mr.Shreeshayana R	
	EE-005	Mr.Shreeshayana R		Mr.Rajesh K S	
	EE-103	Mr Raghavendra L		Mr. Sathish K R	

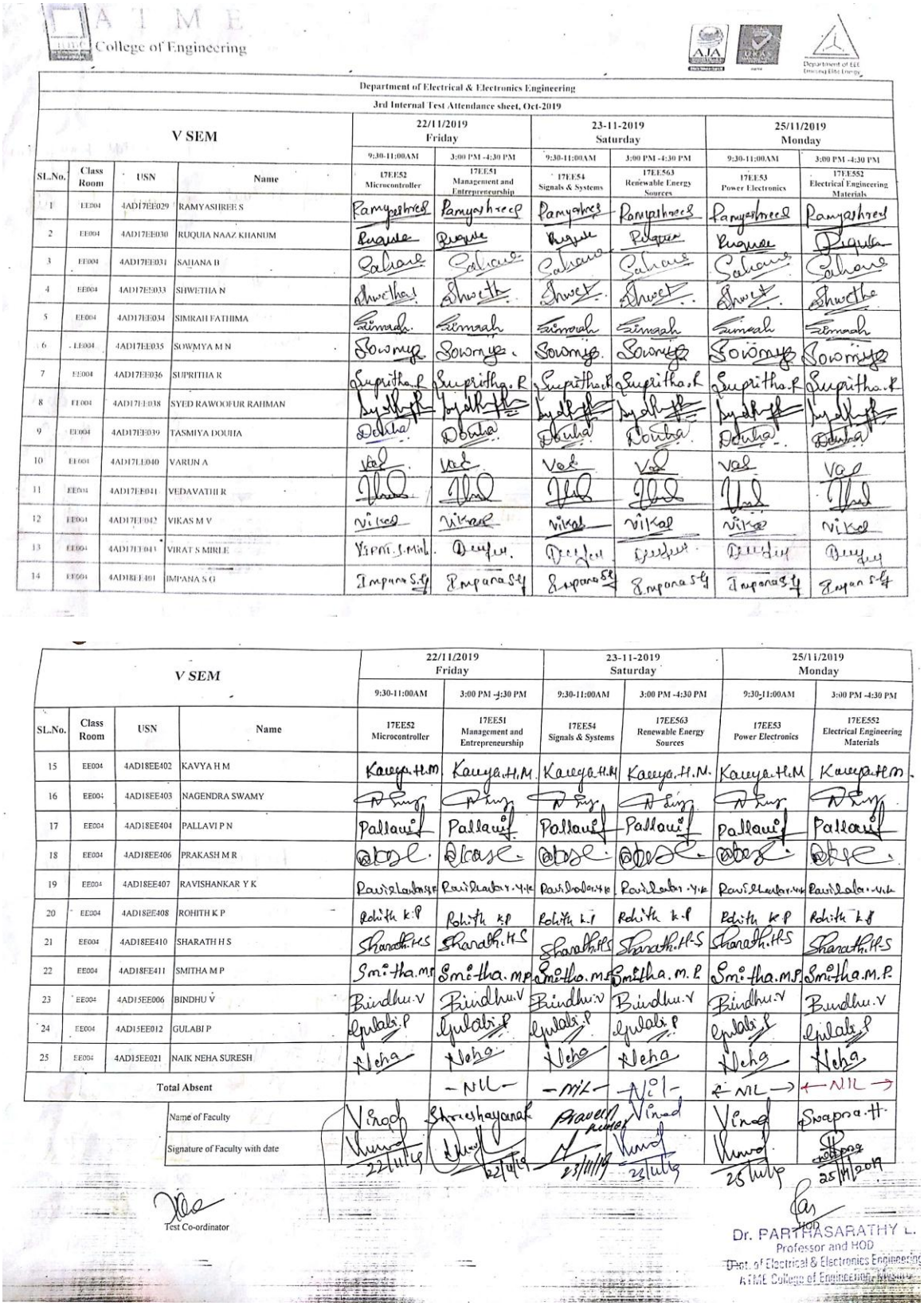
* Student should be present in the examination hall for at least 75 Minute after the Commencement of Test.

Test Co-ordinator

HoD 21/11/19

Department of Electrical and Electronics Engineering

E. STUDENT ATTENDANCE SHEET



Department of Electrical & Electronics Engineering

3rd Internal Test Attendance sheet, Oct-2019

V SEM				22/11/2019 Friday		23-11-2019 Saturday		25/11/2019 Monday	
				9:30-11:00AM	3:00 PM -4:30 PM	9:30-11:00AM	3:00 PM -4:30 PM	9:30-11:00AM	3:00 PM -4:30 PM
SL.No.	Class Room	USN	Name	17EE52 Microcontroller	17EE51 Management and Entrepreneurship	17EE54 Signals & Systems	17EE563 Renewable Energy Sources	17EE53 Power Electronics	17EE552 Electrical Engineering Materials
1	EE004	4AD17EE029	RAMYASHREE S						
2	EE004	4AD17EE030	RUQUIA NAAZ KHANUM						
3	EE004	4AD17EE031	SAJIANA B						
4	EE004	4AD17EE033	SHWETHA N						
5	EE004	4AD17EE034	SIMRAH FATHIMA						
6	EE004	4AD17EE035	SOWMYA M N						
7	EE004	4AD17EE036	SUPRITHA R						
8	EE004	4AD17EE038	SYED RAWOOFUR RAHMAN						
9	EE004	4AD17EE039	TASMIYA DOUHA						
10	EE004	4AD17EE040	VARUN A						
11	EE004	4AD17EE041	VEDAVATHI R						
12	EE004	4AD17EE042	VIKAS M V						
13	EE004	4AD17EE043	VIRAT S MIRLE						
14	EE004	4AD18EE401	IMPANA S G						

V SEM				22/11/2019 Friday		23-11-2019 Saturday		25/11/2019 Monday	
				9:30-11:00AM	3:00 PM -4:30 PM	9:30-11:00AM	3:00 PM -4:30 PM	9:30-11:00AM	3:00 PM -4:30 PM
SL.No.	Class Room	USN	Name	17EE52 Microcontroller	17EE51 Management and Entrepreneurship	17EE54 Signals & Systems	17EE563 Renewable Energy Sources	17EE53 Power Electronics	17EE552 Electrical Engineering Materials
15	EE004	4AD18EE402	KAVYA H M						
16	EE004	4AD18EE403	NAGENDRA SWAMY						
17	EE004	4AD18EE404	PALLAVI P N						
18	EE004	4AD18EE406	PRAKASH M R						
19	EE004	4AD18EE407	RAVISHANKAR Y K						
20	EE004	4AD18EE408	ROHITH K P						
21	EE004	4AD18EE410	SHARATH H S						
22	EE004	4AD18EE411	SMITHA M P						
23	EE004	4AD15EE006	BINDHU V						
24	EE004	4AD15EE012	GULABI P						
25	EE004	4AD15EE021	NAIK NEHA SURESH						
Total Absent					-NIL-	-NIL-	-NIL-	-NIL-	-NIL-
			Name of Faculty						
			Signature of Faculty with date	22/11/19	22/11/19	23/11/19	25/11/19	25/11/19	25/11/2019

Test Co-ordinator

HOD
Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

F. SAMPLE IA QP & SCHEME

ATME College of Engineering

Department of Electrical and Electronics Engineering

IA TEST - I USN

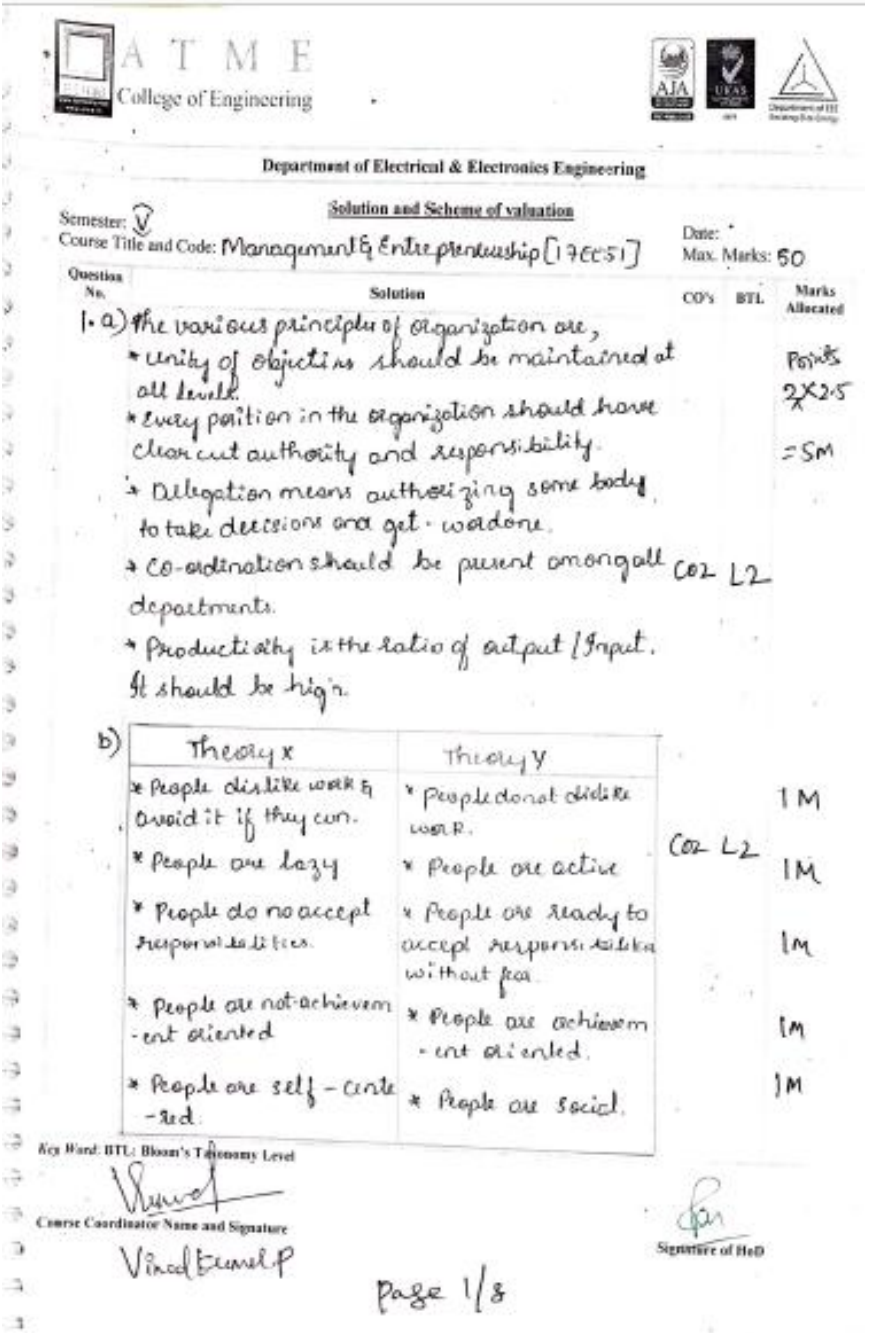
Semester	V	Date:12.09.2019	Time:9.30 to 11.00 AM
Course Code	17EE51	Max. Marks	50
Course Title	Management & Entrepreneurship		

Sl. NO	PART-A Answer any Three Full Questions of 10 Marks Each		CO's	Bloom's Taxonomy Level
1.	a) Explain various principles of Organization. b) Explain Maslow's theory of Motivation.	5M 5M	CO2 CO2	L2 L2
2	a) Distinguish between Centralization & Decentralization. b) Define staffing. Explain the steps involved in selection procedure.	4M 6M	CO2 CO2	L1 L2
3	a) What are essentials for sound control systems in an organization? b) Explain the meaning and importance of coordination.	5M 5M	CO2 CO2	L2 L1
4	a) Define committee. Explain different types of committee. b) What is communication? Discuss the purpose of communication.	5M 5M	CO2 CO2	L2 L1
5	a)What are advantages of MBO & MBE? b)Explain decentralization of authority	5M 5M	CO2 CO2	L2 L1
	PART B Answer any Two Question of 10 Marks			
6.	a) Define 'Management' precisely. Briefly explain the levels of management. b) Distinguish between management and administration.	6M 4M	CO1 CO1	L1 L2
7.	a) Explain different types of planning. b) Discuss the importance of planning.	5M 5M	CO1 CO1	L1 L2
8.	a) Explain the steps involved in decision making. b) Explain single use plans and standing plans.	7M 3M	CO1 CO1	L2 L1

CO1	**Apply** the principles and concepts of management, planning for decision making
CO2	**Interpret** the concepts of organizing, staffing, directing and controlling
CO3	**Interpret** the concepts and characteristics of entrepreneur and business for capacity building and corporate Governance
CO4	**Extend** the concepts of small scale industries and **receive** institutional supports for industries
CO5	**Apply** the ideas in the development and execution of the project by considering Technical, Economical, Administrative and relevant aspects

Bloom's Taxonomy Level	L1-Remembering	L2-Understanding	L3-Applying	L4-Analyzing	L5-Evaluating	L6-Creating

Department of Electrical and Electronics Engineering



ATME College of Engineering

Department of Electrical & Electronics Engineering

Solution and Scheme of valuation

Semester: V
Course Title and Code: Management & Entrepreneurship [17EE51]
Date:
Max. Marks: 50

Question No.	Solution	CO's	BTL	Marks Allocated
1. a)	The various principles of organization are, * unity of objectives should be maintained at all levels. * every position in the organization should have clear cut authority and responsibility. * Delegation means authorizing some body to take decisions and get work done. * Co-ordination should be present amongall departments. * Productivity is the ratio of output / Input. It should be high.	CO2	L2	Points 2X2.5 = 5M
b)	Theory X / Theory Y * People dislike work & avoid it if they can. / * People do not dislike work. * People are lazy / * People are active * People do no accept responsibilities. / * People are ready to accept responsibilities without fear. * People are not achievement oriented / * People are achievement oriented. * People are self-centered. / * People are social.	CO2	L2	1M 1M 1M 1M 1M

Key Word: BTL: Bloom's Taxonomy Level

Course Coordinator Name and Signature
Vinod Kumar P

Signature of HoD

Page 1/8

Department of Electrical and Electronics Engineering

Question No.		CO's	BTL	Marks Allocated
8.a)	**Centralization** * Centralization is more appropriate in simple & stable organizations. * Centralization is better in Vatical organizational structure. * Centralization is better in single - location facilities. **De-centralization** * De-centralization is more appropriate in complex & uncertain organizations. * Decentralization is better if it is more horizontal in structure. * Decentralization is better in multi-location facilities.	CO2	L4	4 points 4M
b)	Staffing is the process of attracting & developing human resources to work for an organization and also to evaluate them in their work. The steps involved in selection procedure are, 1. Receipt of Job-applications 2. Preliminary Interview. 3. Employment Tests 4. Group Discussion 5. Final Interview 6. Checking References 7. Medical Examination 8. Placement :- The final step in the selection process is to give the appointment order to the candidate specifying the place of	CO2	L2	3M 4M

Course Coordinator Name and Signature

Signature of HoD

Vinod Kumar F

Department of Electrical and Electronics Engineering

3.a) Essentials of a sound control process

* Clear definition of objectives and stand-ards.
* Selection of appropriate control techniques.
* it should focus on the right areas
* it should be reasonable, practical and attainable.
* it should encourage self-control.
* it should be acceptable to all people who would be affected by it.
* control technique should be simple/easy to understand.

CO2 L2

5 points - 1 mark each
5X1 = 5M

b) Co-ordination implies deliberate action on the part of managers to bring about harmony and unity of action.

CO2 L1

1M

Importance of co-ordination.

* it increases human efficiency and optimization of resources.
* it improves relationships between individu-als.
* it makes all divisions of an organizati-on to have a joint focus.
* it facilitates sharing of scarce resources.
* it retains and attracts talents.

4 points 1 mark
4X1 = 4M

Course Coordinator Name and Signature

Vinod Kumar.P

Signature of HoD

Department of Electrical and Electronics Engineering

4.a) A committee is not exactly a type of organization structure different from the other types. — 1M

The different types of committe are, — CO2 L2 — 4X1 =4M

1. Ad-hoc committee :- it is a temporary committee formed for a short period to solve a solitary and usually a minor problem.
2. Standing or permanent committee.
3. Advisory committee.
4. Educational committe :- this is a committee which guards the company policies and procedures.

C4 Committ

b) Communication is defined as the process by which instructions, ideas, thoughts, or information are transmitted, received & understood by people working in an organization. — CO2 L1 — 1M

The purpose of communication are, — 4X1 =4M

- it is a fundamental skill required by every one.
- it helps planning and decision-making.
- Better co-ordination is achieved through communication.
- it improves relationship among employees.
- Managers can become more efficient with good communication skills.

4-points

Course Coordinator Name and Signature
Vinod Kumar P

Signature of HoD

Department of Electrical and Electronics Engineering

5.a)

MBO	MBE
* MBO is high.	* MBE is low.
* Employee participation is high on decision making.	* Employee participation is minimal on decision making.
* Dependency is low	* Dependency is high
* Experienced manger	* Experienced executives.
* whole organization take place in decision making, so it reaccess efficiency.	* High efficiency.

CO2 L2 5X1= 5M

5 Points

b) * If the organization encourages lower level personnel to participate in the decision-making process by giving them greater freedom, the organization is called decentralized authority. — 2M

CO2 L4

* De-centralized authority is preferred if education and experience are spread over the hierarchy. — 1M

* De-centralized authority is preferred if the lower level managers are competent to take decisions. — 1M

* Decentralization is better in multi-location facilities. — 1M

Course Coordinator Name and Signature
Vinod Kumar.P

Signature of HoD

Department of Electrical and Electronics Engineering

6. a) "Management is a multipurpose organ that manages a business, manages a manager and manager workers and work. — 2M

The levels of management are, — 1M

1. Top management :- Col L1
   (a) Board of Directors – Determine the goals of the organization. — 1M
   (b) Managing director – establish policies.
2. Middle Management :-
   (a) Superintendents – To plan details of all operations. — 1M
   (b) Departmental heads.
3. Lowest management :- — 1M
   (a) Foreman
   (b) Supervisors.

b)

Management	Administration
* Leading, Motivating and controlling.	* Planning, Organising and staffing.
* Act as owner	* Act as an agency
* Top level	* Lower level
* Managing Director, Owners, CEO etc	* Managers, Supervisors foreman etc.
* No direct involvement in production or services	* Directly involvesin the execution of plans and achieving goals.

Col L2 — 4 points — 4M — 4X1=

Course Coordinator Name and Signature
Vinod Kumar P

Signature of HoD

Department of Electrical and Electronics Engineering

7.a)	The different types of planning are, 1) Strategic planning * long range * objectives and policies * top management responsibility. 2) Tactical planning * medium range * procedures and strategies * middle management. 3) Operational planning * short range * schedules and methods * lower management.	CO1	L1	2M 2M 1M
b)	The importance of planning are; * Planning provides direction and purpose to all activities in an organization. * it minimize risk and uncertainty. * it ensures co-ordination. * it leads to better economy through optimization. * it facilities decision making. * It reduces ovalapping and wastage of efforts. * it facilitates control of people and their activities.	CO1	L1	5point 5x1=5M

Course Coordinator Name and Signature

Vinod Kumar.P

Signature of HoD

Department of Electrical and Electronics Engineering

8. a) The steps involved in ~~planning~~ Decision making are,

1) To define the problem and parameters influencing it. — 6 part

2) To establish the Critellia for decision making. — CO1 L2 6M

3) To formulate a model considering all decision variables.

4) To generate alternatives solution by vary -ing parameter.

5) Evaluate all alternatives and select the be -t.

6) Implement the decision and monitor the resu -lt. — 1M

b) The single use plans and standing plans are,

1. Policies :- they provide standing answer to recu -rring problems. — 2M
2. Strategies
3. Procedures — CO1 L2
4. Methods
5. Rules
6. Program
7. Schedule
8. Projects
   - it can be termed as a small program.
9. Budgets :- it is a written plan in monetary term designed primarily to allocate the resources of an organization. — 1M

Course Coordinator Name and Signature

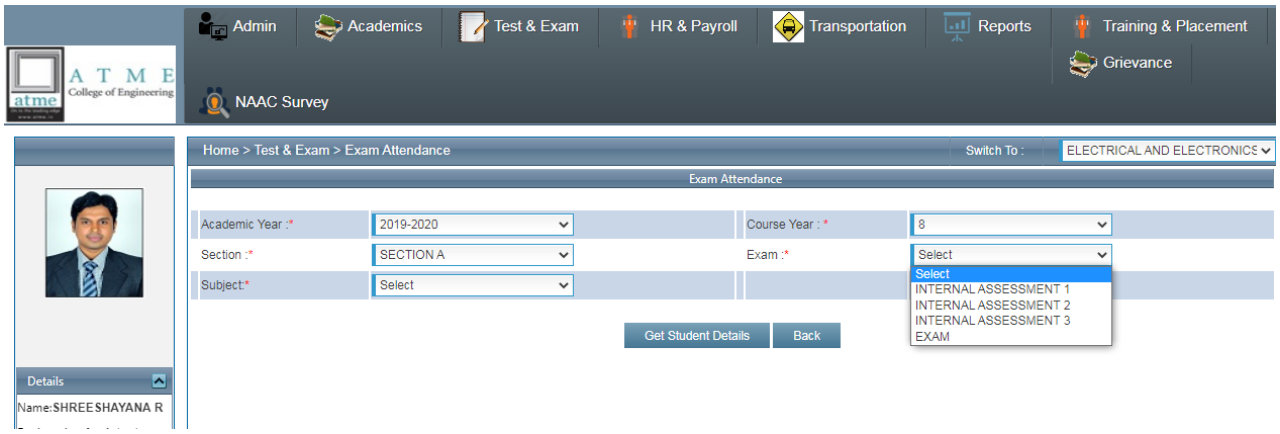
Vinod Kumar P

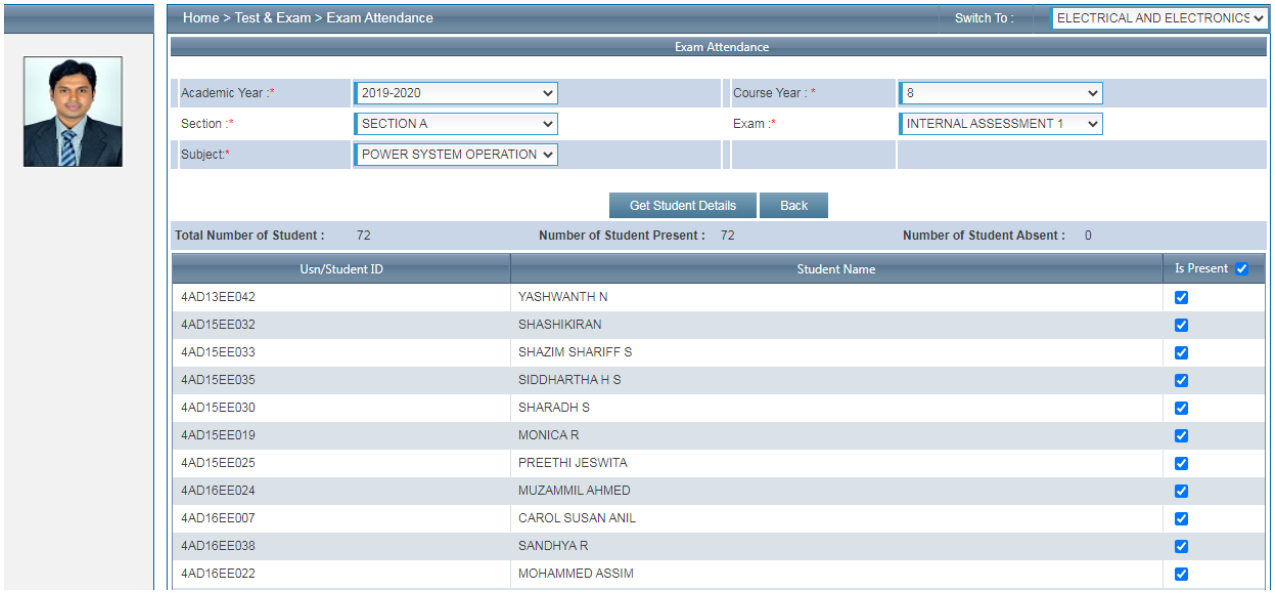
Signature of HoD

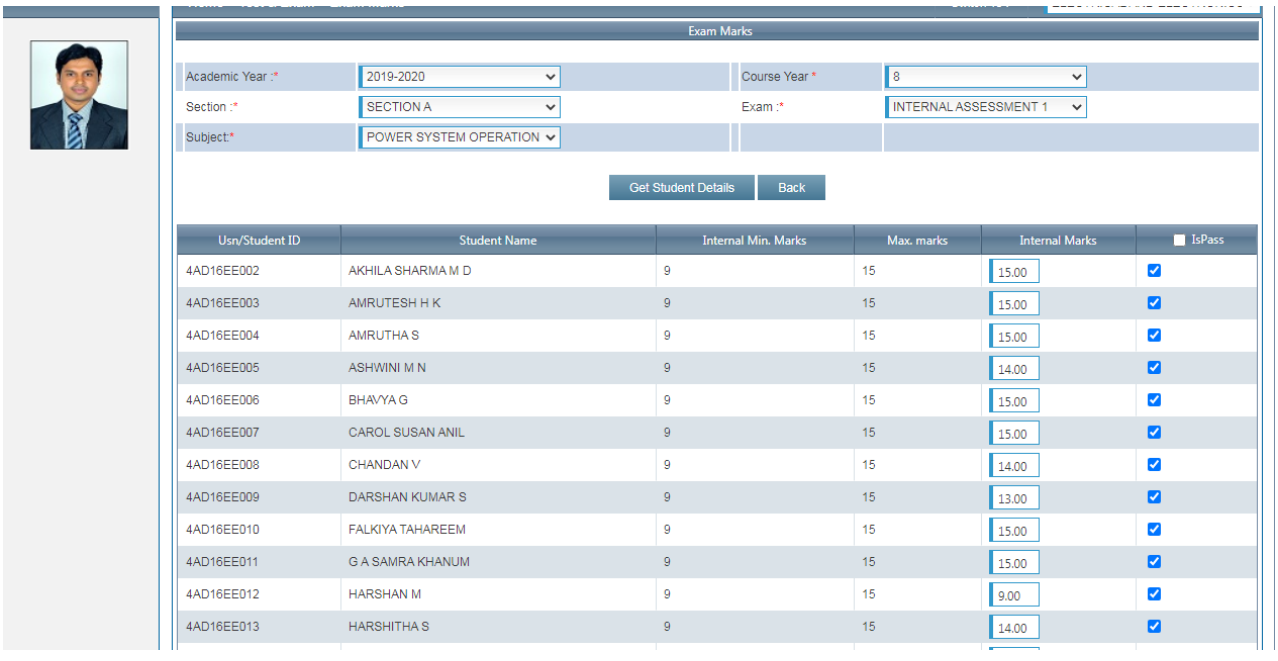
Department of Electrical and Electronics Engineering

G. CERP Screenshots of Test Marks

Scheme of Valuation is discussed with students and blue books are distributed to students. Test marks is uploaded in CERP Portal







ONLINE TEST PROCESS

Department of Electrical and Electronics Engineering

AY:2019-2020 [Even Semester]

During the pandemic special care was taken to keep the Test process robust. Invigilators were allotted who monitored the entire process of test conduction.

1. Test Schedule announcement to students through circular
2. Scrutiny of papers as previously followed.
3. Student Group allotment in the Microsoft Teams channel.
4. Invigilators allotment in MS Team Group
5. During the entire Test process, Students have to keep the camera on.
6. Test paper will be deployed using MS Team Form Channel.
7. Test process was video documented and monitored by Invigilator with the assistance of Test coordinator. Head of the Department monitored the process by visiting all the MS Teams channels. Instructors were allotted in every group to monitor any technical issues
8. Students entered Name, USN, Signature in every sheet and uploaded the Test script in the submission form provided.

HoD

Dr. PARTHASARATHY
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

Online Test Process

A. Test Time Table

ATME College of Engineering

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Internal Assessment-2 Time Table

Date 22/05/2020

Date	Time	IV Semester 'A' & 'B' Section	VI Semester	VIII Semester
26/05/2020 Tuesday	2:00 pm to 3:30 pm	18EE45 Electromagnetic Field Theory	17EE64 Electrical Machine Design	---
27/05/2020 Wednesday	2:00 pm to 3:30 pm	18EE43 Transmission and Distribution	17EE651 Computer Aided Electrical Drawing	---
28/05/2020 Thursday	2:00 pm to 3:30 pm	18EE41- 9:30 am to 11:00 am Complex analysis, probability and statistical methods	17EE662 Sensors and Transducers	15EE81 Power System Operation and Control
29/05/2020 Friday	2:00 pm to 3:30 pm	18EE46 Operational Amplifiers and Linear Ics	17EE62 Power System Analysis – I	15EE833 Integration of Distributed Generation
30/05/2020 Saturday	2:00 pm to 3:30 pm	18EE42 Power Generation and Economics	17EE63 Digital Signal Processing	15EE82 Industrial Drives and Applications
31/05/2020 Sunday	12:00 pm to 1:30 pm	18EE44 Electric Motors	17EE61 Control Systems	---

Note :

1. Student should attend all Internal Tests Compulsorily
2. The test will be conducted on MS teams platform
3. Students should log in to the MS teams 15 minutes prior to the commencement of test.
4. Students should turn on the camera through out the session
5. Students should keep 10 A4 size sheets indicated with Name and USN for the courses with numericals
6. Students should scan and upload the answers with in the stipulated time for uploading files in PDF format
7. Regular Classes will resume as per the schedule

22/5/2020
Test Co-ordinator

22.5.2020
H.O.D
Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

22/5/2020
PRINCIPAL
ATME College of Engineering
Sh KM, Mysuru-Kanakapura-Bangalore Roa
Mellahalli, Mysuru-570028

Department of Electrical and Electronics Engineering

b. Sample Student Group allotment in the Microsoft Teams channel.

ATME College of Engineering
Department of EEE
Emitting Elite Energy

Department of Electrical and Electronics Engineering

Online Internal Assessment -2 Student Team Allotment

Semester-4th A & B

Team- EEE-4th sem-IA-2-Group-A

SL No.	USN	Name	Section	MS Test Team Group Name
1	4AD18EE002	ADITHYA K S	A	EEE-4th sem IA-2 Group-A
2	4AD18EE003	AISHWARYA M	A	EEE-4th sem IA-2 Group-A
3	4AD18EE004	ANUSHA N K	A	EEE-4th sem IA-2 Group-A
4	4AD18EE005	CHANDAN KUMAR C B	A	EEE-4th sem IA-2 Group-A
5	4AD18EE006	CHANDAN M N	A	EEE-4th sem IA-2 Group-A
6	4AD18EE007	DAMINI DORA K P	A	EEE-4th sem IA-2 Group-A
7	4AD18EE009	DEEKSHITHA V	A	EEE-4th sem IA-2 Group-A
8	4AD18EE010	GAGANA S	A	EEE-4th sem IA-2 Group-A
9	4AD18EE011	JEEVITH U	A	EEE-4th sem IA-2 Group-A
10	4AD18EE012	KAVERI K	A	EEE-4th sem IA-2 Group-A
11	4AD18EE013	LAKSHMI A A	A	EEE-4th sem IA-2 Group-A
12	4AD18EE014	LANKESH H D	A	EEE-4th sem IA-2 Group-A
13	4AD18EE015	MADHUGOWDA H K	A	EEE-4th sem IA-2 Group-A
14	4AD18EE016	MANJUNATHA K B	A	EEE-4th sem IA-2 Group-A
15	4AD18EE017	MANOJKUMAR K S	A	EEE-4th sem IA-2 Group-A
16	4AD18EE018	MISBAH AFSHEEN	A	EEE-4th sem IA-2 Group-A
17	4AD18EE019	MOHAMMED SUHAIL	A	EEE-4th sem IA-2 Group-A
18	4AD18EE020	NAYANA K S	A	EEE-4th sem IA-2 Group-A
19	4AD18EE021	POOJA BAI	A	EEE-4th sem IA-2 Group-A
20	4AD18EE022	PRAVEEN GOWDA S B	A	EEE-4th sem IA-2 Group-A

Team- EEE-4th sem-IA-2-Group-B

SL No.	USN	Name	Section	MS Test Team Group Name
1	4AD19EE400	ABHISHEK R	B	EEE_4th Sem_IA2-Group-B
2	4AD19EE401	BASAVARAJU B S	B	EEE_4th Sem_IA2-Group-B
3	4AD19EE402	BHANUPRAKASHA B R	B	EEE_4th Sem_IA2-Group-B
4	4AD19EE403	BHARATH S	B	EEE_4th Sem_IA2-Group-B
5	4AD19EE404	CHANDAN S MAHADEV	B	EEE_4th Sem_IA2-Group-B
6	4AD19EE405	CHANDRA SHEKARA G R	B	EEE_4th Sem_IA2-Group-B
7	4AD19EE406	CHARAN M V	B	EEE_4th Sem_IA2-Group-B
8	4AD19EE407	DARSHAN M R	B	EEE_4th Sem_IA2-Group-B
9	4AD17EE010	FAWAZ AHMED	A	EEE_4th Sem_IA2-Group-B
10	4AD19EE409	GOWTHAMI H S	B	EEE_4th Sem_IA2-Group-B
11	4AD19EE410	HEMANTH B S	B	EEE_4th Sem_IA2-Group-B
12	4AD19EE411	LOKESH B K	B	EEE_4th Sem_IA2-Group-B
13	4AD19EE413	MANASA H P	B	EEE_4th Sem_IA2-Group-B
14	4AD17EE024	MONIKA P	A	EEE_4th Sem_IA2-Group-B
15	4AD18EE023	PREETHU N	A	EEE_4th Sem_IA2-Group-B

ATME College of Engineering
Department of EEE Emitting Elite Energy
Department of Electrical and Electronics Engineering

16	4AD18EE024	RADHIKA M S	A	EEE_4th Sem_IA2-Group-B
17	4AD18EE026	SHASHI KUMAR V	A	EEE_4th Sem_IA2-Group-B
18	4AD18EE027	SYEDA FAIZA	A	EEE_4th Sem_IA2-Group-B
19	4AD18EE028	VINOD H V	A	EEE_4th Sem_IA2-Group-B
20	4AD18EE029	VIVEK S	A	EEE_4th Sem_IA2-Group-B
21	4AD18EE030	YASEEN ULLA KHAN	A	EEE_4th Sem_IA2-Group-B

Team- EEE-4th sem-IA-2-Group-C

SL No.	USN	Name	Section	MS Test Team Group Name
1	4AD19EE408	GOWTHAM P	B	EEE-4th Sem-IA-2 Group -C
2	4AD19EE412	MAHADEVAPRASAD R	B	EEE-4th Sem-IA-2 Group -C
3	4AD19EE414	MD SALMAN AHMED	B	EEE-4th Sem-IA-2 Group -C
4	4AD19EE415	NAVEEN B	B	EEE-4th Sem-IA-2 Group -C
5	4AD19EE416	NIKSHITH T C	B	EEE-4th Sem-IA-2 Group -C
6	4AD19EE417	NIRANJANAKUMAR K M	B	EEE-4th Sem-IA-2 Group -C
7	4AD19EE418	PAVANRAJ N P	B	EEE-4th Sem-IA-2 Group -C
8	4AD19EE419	PRAJWAL S	B	EEE-4th Sem-IA-2 Group -C
9	4AD19EE420	PURUSHOTHAM P S	B	EEE-4th Sem-IA-2 Group -C
10	4AD19EE421	RAJAT P KARAVATE	B	EEE-4th Sem-IA-2 Group -C
11	4AD19EE422	SANJAY S	B	EEE-4th Sem-IA-2 Group -C
12	4AD19EE423	SHIVAPRASAD C M	B	EEE-4th Sem-IA-2 Group -C
13	4AD19EE424	SRIKANTA SHARMA M S	B	EEE-4th Sem-IA-2 Group -C
14	4AD19EE425	SYED DANISH	B	EEE-4th Sem-IA-2 Group -C
15	4AD19EE426	SYED FAIZAN MOHAMMED	B	EEE-4th Sem-IA-2 Group -C
16	4AD19EE427	VENKATARAMU H D	B	EEE-4th Sem-IA-2 Group -C
17	4AD19EE428	VIJAY KUMAR C	B	EEE-4th Sem-IA-2 Group -C
18	4AD19EE429	VINAY M J	B	EEE-4th Sem-IA-2 Group -C

Note:

1) Students need to login into respective IA group team and take up the test.
2) Follow the instructions offered by Faculty Coordinator during the test.
3) Students are informed to login 10 minutes prior to schedule test time.
4) Students are informed to cast your attendance in MS teams during the test in respective teams groups.

HoD

Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

C. Invigilators Allotment

ATME College of Engineering

Department of Electrical and Electronics Engineering

Invigilator Schedule for IA-2, May-2020

Tue to Sat- 2:00 pm to 3:30 pm
Sun: 12:00 to 1:30 pm

Date: 25-05-2020

Date	Semester	Course	Group- A	Group- B	Group-C	Instructor
26-05-2020	IV sem	EFT	**Mr.Vinod Kumar P**	Maria Sushma S	Mr. Raghavendra L	Mr Channabasava
	VI sem	EMD	Mr.Praveen Kumar M	Ms.Swapna H	**Mr. Sathish K R**	Mr Kushal R
27-05-2020	IV sem	T&D	**Mr.Vinod Kumar P**	Maria Sushma S	Mr. Raghavendra L	Mr Channabasava
	VI sem	CAED	Mrs. Lakshmi K	Ms.Swapna H	**Mr. Sathish K R**	Mr Kushal R
28-05-2020	VI sem	S&D	Mr.Praveen Kumar M	Ms.Swapna H	**Mr. Sathish K R**	Mr Kushal R
	VIII sem	PSOC	Mr.Shreeshayana R	Mr.Praveen Kumar M	Dr Parthsarathy L	Mr Somashekar M
29-05-2020	IV sem	OLIC	**Mr.Vinod Kumar P**	Maria Sushma S	Mr. Raghavendra L	Mr Channabasava
	VI sem	PSA-1	Mrs. Lakshmi K	Ms.Swapna H	**Mr. Sathish K R**	Mr Kushal R
	VIII sem	IDG	Mr.Shreeshayana R	Mr.Praveen Kumar M	Dr Parthsarathy L	Mr Somashekar M
30-05-2020	IV sem	PGE	**Mr.Vinod Kumar P**	Maria Sushma S	Mr. Raghavendra L	Mr Channabasava
	VI sem	DSP	Mrs. Lakshmi K	Ms.Swapna H	**Mr. Sathish K R**	Mr Kushal R
	VIII sem	IDA	Mr.Shreeshayana R	Mr.Praveen Kumar M	Dr Parthsarathy L	Mr Somashekar M
31-05-2020	IV sem	EM	**Mr.Vinod Kumar P**	Maria Sushma S	Mr. Raghavendra L	Mr Channabasava
	VI sem	CS	Mr.Praveen Kumar M	Ms.Swapna H	**Mr. Sathish K R**	Mr Kushal R

NOTE

1. The invigilators should monitor the respective groups allotted with an average of 20 students in each group. At random instants the students can be called by the invigilators to turn on the camera.
2. The invigilator need to keep track of the students who frequently leave the session and rejoin
3. The invigilators need to record the complete session of IA

Test Co-ordinator

HoD

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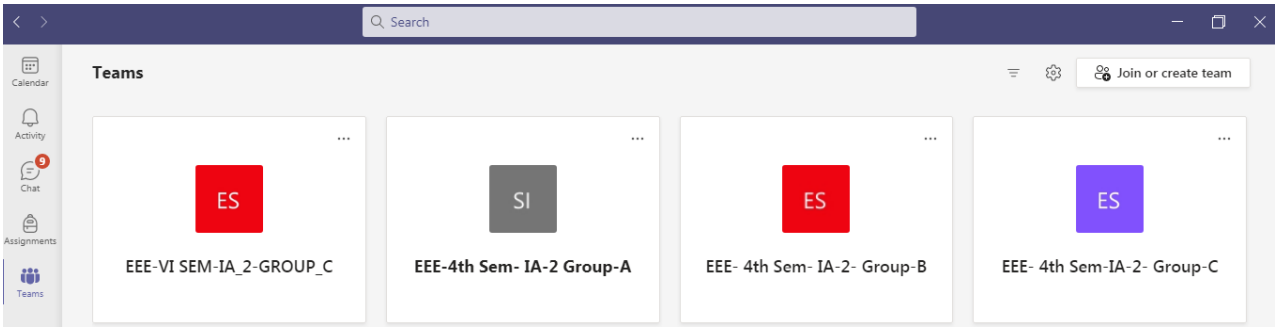
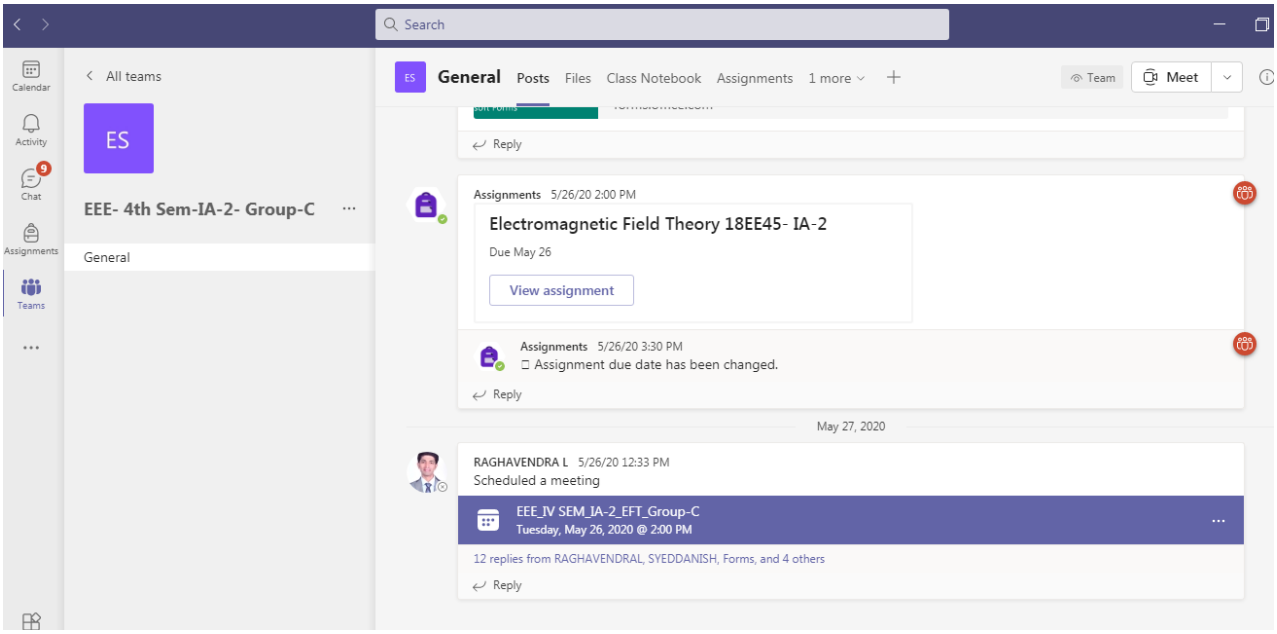
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

D. Test Paper deployment and submission form in MS Teams

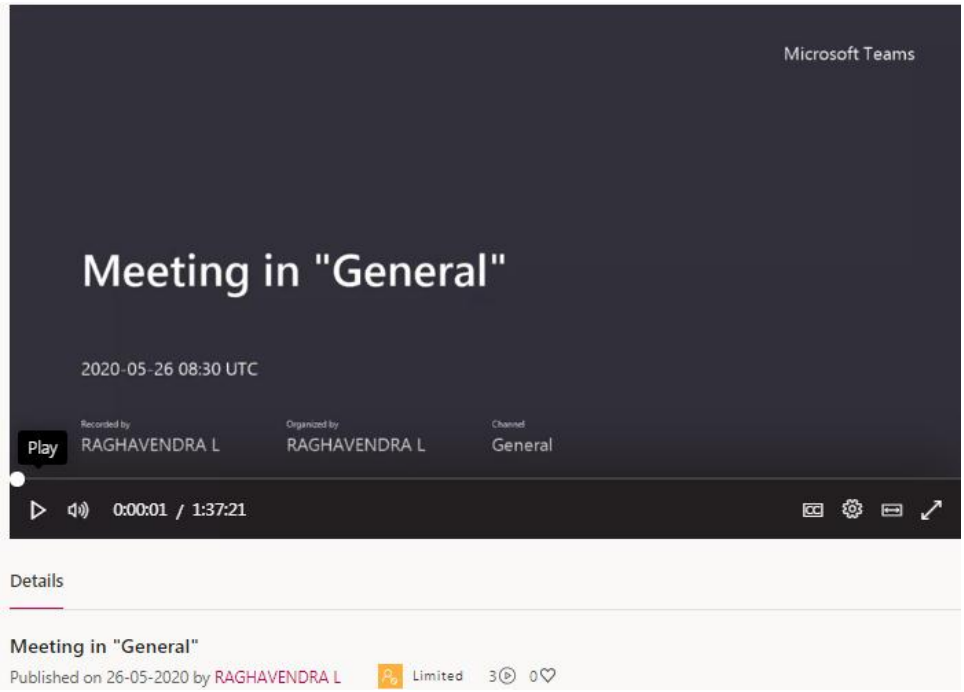


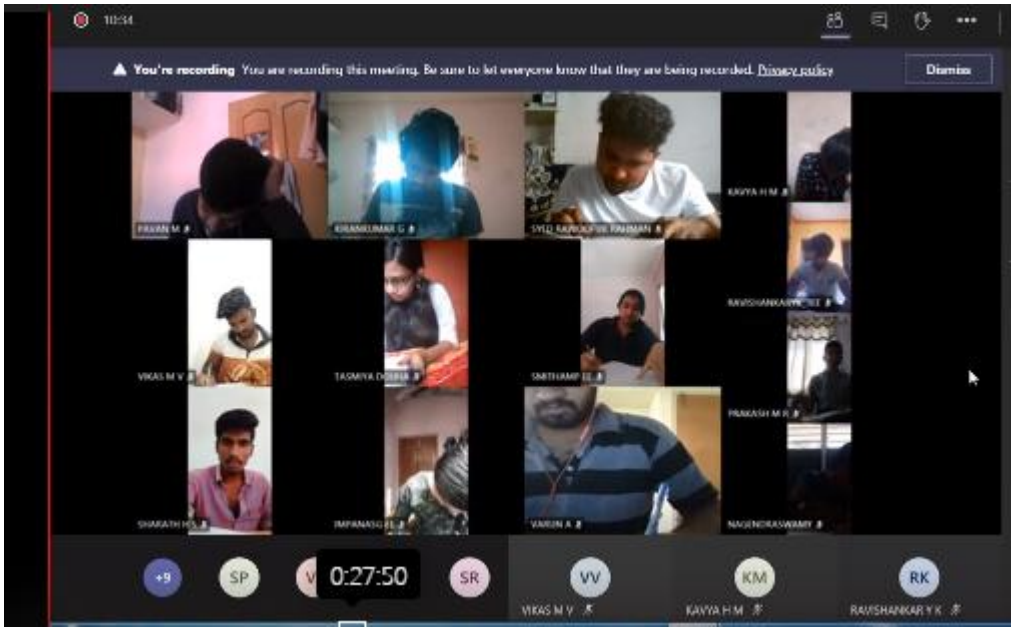


HoD

Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

E. Test Recording Screenshots





HoD

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Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

ASSIGNMENT

Department of Electrical and Electronics Engineering

ODD Semester:2019-2020

The Department follows the following components for the evaluation of **Assignments (10 Marks/Course).**

1. Quiz on the topics relevant to the syllabus or beyond syllabus. (Weightage of 3 Marks)
2. Mock Test before the Internal Assessment. (Weightage of 3 Marks)
3. Solving the VTU/ IA question papers. (Weightage of 4 Marks)
4. Group assignments (Weightage of 4 Marks)

Components 1 and 2 are compulsory and from components 3 and 4 any one is considered for the assignment.

In each component the best score is considered. The sum of the final value of the component 1, 2 and 3or 4 is considered for the final score of the assignment.

Even Semester:2019-2020

In the Even semester revision in the policy was adopted. Any three components below can be considered for 6Marks.Remaining 4 marks is assigned for skill enhancement through MOOC Certification.

1. Quiz on the topics relevant to the syllabus or beyond syllabus. (Weightage of 2 Marks)
2. Mock Test before the Internal Assessment. (Weightage of 2 Marks)
3. Solving the VTU/ IA question papers. (Weightage of 2 Marks)
4. Group assignments (Weightage of 2 Marks)

   MOOC Certification

- For registration of the course (Weightage of 2 Marks)
- Completion of the course (Weightage of 2 Marks)

Quiz on the topics relevant to the syllabus or beyond syllabus

Course : Power Electronics

Course Code:17EE53

ATME College of Engineering

Department of Electrical and Electronics Engineering
Evaluation of Module 3: Power Thyristor

Course		
Power Electronics (17E53)		
Date Created	**Active Participan**	**Total Participants**
10/16/2019 12:00:00 AM	44	44
Average Score	**Questions**	
54.55%	10	

Sl. No.	Name	Device ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Points	Score
		Answer Key	C	B	D	A	C	D	C	A	D	C	10.00	100.00%
1	AKSHAY D	E365F0	B	D	D	A	C	D	C	A	A	D	6.00	60.00%
2	ARPITHA R	E2BFD7	C	D	D	A	C	A	C	A	D	A	7.00	70.00%
3	ASHA P	E2D419	C	A	D	C	C	D	A	A	-	A	5.00	50.00%
4	ASHWINI C R	E3663D	C	B	D	B	C	D	B	A	D	D	7.00	70.00%
5	ASHWINI D S	E2BF62	C	B	D	B	C	D	A	A	D	D	7.00	70.00%
6	B ROSHAN	E2BF75	C	B	D	C	C	D	A	A	A	A	6.00	60.00%
7	BINDHU V	E2BF25	C	D	A	A	C	A	C	A	A	A	5.00	50.00%
8	DEEPTHI M	E2BFBF	C	D	D	A	A	A	A	C	B	A	3.00	30.00%
9	DHANYATHA M	E2BF5B	C	A	D	A	C	A	C	A	D	A	7.00	70.00%
10	GAGANA S	E347F1	C	D	D	A	C	A	C	A	D	A	7.00	70.00%
11	GULABI P	E2D391	C	D	D	B	C	A	C	A	A	B	5.00	50.00%

Sample screenshot

HoD
Dr. PARTHASARATHY
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

Mock Test before the Internal Assessment

ATME College of Engineering
Department of EEE
Emitting Elite Energy

Department of Electrical and Electronics Engineering

Ref.No./AY-2019-20 11.10.2019

CIRCULAR

The department is conducting a Mock Test for all semesters for the courses mentioned below, on 14th and 16th October, 2019. Students are hereby informed to attend the test without fail.

SL.No.	Semester	14th October	Time
1	III	ECA	11.45 to 1.15PM
2	V	S&S	11.45 to 1.15PM
3	VII	PSA-1	11.45 to 1.15PM

SL.No.	Semester	16th October	Time
1	III	AEC	3.15 to 4.45PM
2	V	MC	3.15 to 4.45PM
3	VII	PSP	3.15 to 4.45PM

HoD
Dr. PARTHASARATHY L.
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

11/10/19

EEE_2019-20/ODD

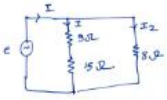
Department of Electrical and Electronics Engineering

Solving VTU QP

MODULE 1 – DC-CIRCUITS

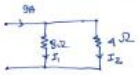
Dec 2018 | Jan 19

15) For a given N/w determine I_1, I_2, I_3 and I & V



⇒ Note:

2C) For a N/w shown calculate powers consumed by each resistor.



$R_p = R_{eq} = \frac{R_1 \times R_2}{R_1 + R_2} = \frac{8 \times 4}{8+4} = \frac{32}{12} = 2.66\,\Omega$

$V = IR$

$= 9 \times 2.66$

$V = 24\,V$

$I_1 = \frac{V_1}{8} \qquad I_2 = \frac{V}{4}$

$I_1 = \frac{24}{8} \qquad I_2 = \frac{24}{4}$

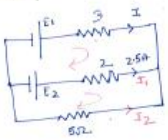
$I_1 = 3A \qquad I_2 = 6A$

$P_8 = I_1^2 R = 3^2 \times 8 = 72\,W$

$P_4 = I_2^2 R = 6^2 \times 4 = 144\,W$

Dec 18 | Jan 20

1b. Find E_1, E_2 and I when the power dissipated in the 5Ω resistor is 125W



given $P_5 = 125W$

$P_5 = I_2^2 R$

$125 = I_2^2 5$

$I_2 = \sqrt{\frac{125}{5}}$

$I_2 = 5A$

KCL

$I_2 = I + I_1$

$I = I_2 - I_1 = 5 - 2.5$

$I = 2.5A$

Applying KVL to loop 1

$-3I + 2I_1 - E_2 + E_1 = 0$

$-3(2.5) + 2(2.5) - E_2 + E_1 = 0$

$-7.5 + 5 - E_2 + E_1 = 0 \longrightarrow (1)$

Apply KVL to loop 2

$E_2 - 2I_1 + 5I_2 = 0$

$E_2 = 2I_1 + 5I_2 = 0$

$= 2(2.5) + 5(5)$

$E_2 = 5 + 25$

$E_2 = -20\,V$

Sub 2

$-7.5 + 5 - E_2 + E_1 = 0$

$E_1 = +7.5 - 5 + E_2 = 0$

$E_1 = 7.5 - 5 - 20 = 0$

$E_1 = -17.5\,V$

by Power dissipated formula

$P_5 = V^2/R \qquad V_{2\Omega} = IR$

$125 = V^2/5 \qquad V_{2\Omega} = 2.5 \times 2$

$V = \sqrt{125 \times 5} \qquad V_{2\Omega} = 5\Omega$

$V_1 = 25V$

$V_{3\Omega} = IR$

$= 2.5 \times 3$

$V_{3\Omega} = 7.5\Omega$

$25 = E_1 + V_{3\Omega} \Rightarrow E_1 = 25 - V_{3\Omega} = 25 - 7.5$

$E_1 = 17.5$

$25 = E_1 + V_{2\Omega} \Rightarrow E_2 = 25 - V_{2\Omega}$

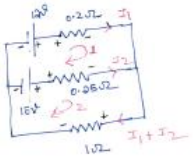
$E_2 = 25 - 5$

$E_2 = 20V$

Dec 2019 | Jan 20

2a. Two 12V batteries with internal resistance 0.2Ω and 0.25Ω respectively are joined in parallel and a resistance of 12Ω is placed across the terminals. Find the current supplied by each battery

Note: Internal resistor means write resistor in series with battery



Apply KVL to loop 1

$12 - 0.2I_1 + 0.25I_2 - 12 = 0$

$-0.2I_1 + 0.25I_2 = 0 \longrightarrow (1)$

Apply KVL to loop 2

$12 - 0.25I_2 - 1(I_1 + I_2) = 0$

$12 - 0.25I_2 - I_1 - I_2 = 0$

$0.25I_2 + I_1 + I_2 = 12$

$I_1 + 1.25I_2 = 12 \longrightarrow (2)$

Solve (1) and (2) simultaneously

$I_1 = 6A \qquad I_2 = 4.8$

$I_1 + I_2 = 10.8\,A$

HoD
Dr. PARTHASARATHY
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

Group Assignment

Students are assigned different case studies work to submit report

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI

RELAY AND HIGH VOLTAGE VIRTUAL LAB

"To Measure the Dielectric Strength of Transformer Oil"

Submitted by

HASEEBULLA BAIG (4AD17EE013)
MOHAMMED HUZAIF (4AD17EE022)
SIMRAH FATHIMA (4AD17EE034)
SYED RAWOOFUR RAHMAN (4AD17EE038)

Mr. Shreeshayana R, M.Tech
Assistant Professor, Department of EEE, ATMECE, Mysuru

ATME College of Engineering

Department of Electrical and Electronics Engineering
ATME COLLEGE OF ENGINEERING
13 KM STONE, MYSURU KANAKAPURA BENGALURU ROAD, MYSURU-570028

To Measure the Dielectric Strength of Transformer Oil

Objective:

To determine the dielectric strength of the given transformer oil.

Components required:

Fig.1: Portable oil testing set

Fig 2: HV transformer

Fig.3: Gap setting gauge

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Department of Electrical and Electronics Engineering

Connection diagram:

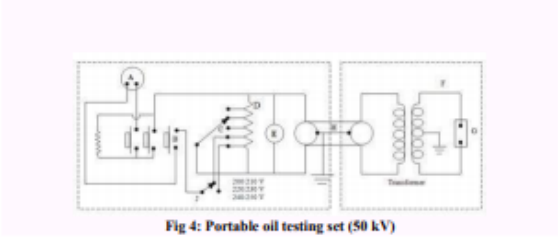


Fig 4: Portable oil testing set (50 kV)

A- Socket for Supply loads

B- Push

C- Multiple Point Control

D- Auto Transformer

E- Voltmeter

F- Step up Transformer

G- Test Cell

H- Inter Connecting Cable

I- Supply Voltage Selector Switch

Theory:

The two unit portable testing set is designed for the periodical testing of samples of insulating oils drawn from plant on site and for checking the dielectric strength of new samples of oil. The equipment is designed to operate from 200/250V, 50Hz, Single phase AC supply. Test gap voltage up to 50kV, it consists of two units, one is containing the testing transformer and other control and metering equipments. These equipments are kept in a metal box to provide full protection to the apparatus during transport and storage. The gap is adjusted between electrodes in accordance with British Standard Specification (BSS) no. 148.

Procedure:

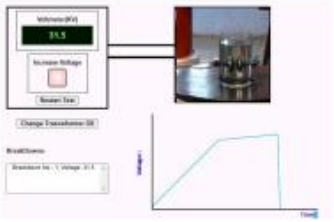
1. Place the High Voltage transformer unit about 7 away from the control unit.
2. The control unit is connected to supply voltage taking care that the earth connections are effective.
3. The multiple point control switch is set at its lowest tapping.
4. The push button on control unit is pressed firmly for at least 5 seconds. Note that no Breakdown to occurs, in which case button should be released at once without delay. Break down is indicated by a continuous discharge across the gap, bubbling of oil in the cell and meter indicating a sudden voltage drop.

Observations:

Sl no.	Breakdown voltage
1.	31.5
2.	30.3
3.	28.6
4.	31.5
5.	29.4

Simulation:

Trial 1:



HoD
Dr. PARTHASARATHY
Professor and HOD
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ATME College of Engineering, Mysuru

Department of Electrical and Electronics Engineering

MOOC Certification

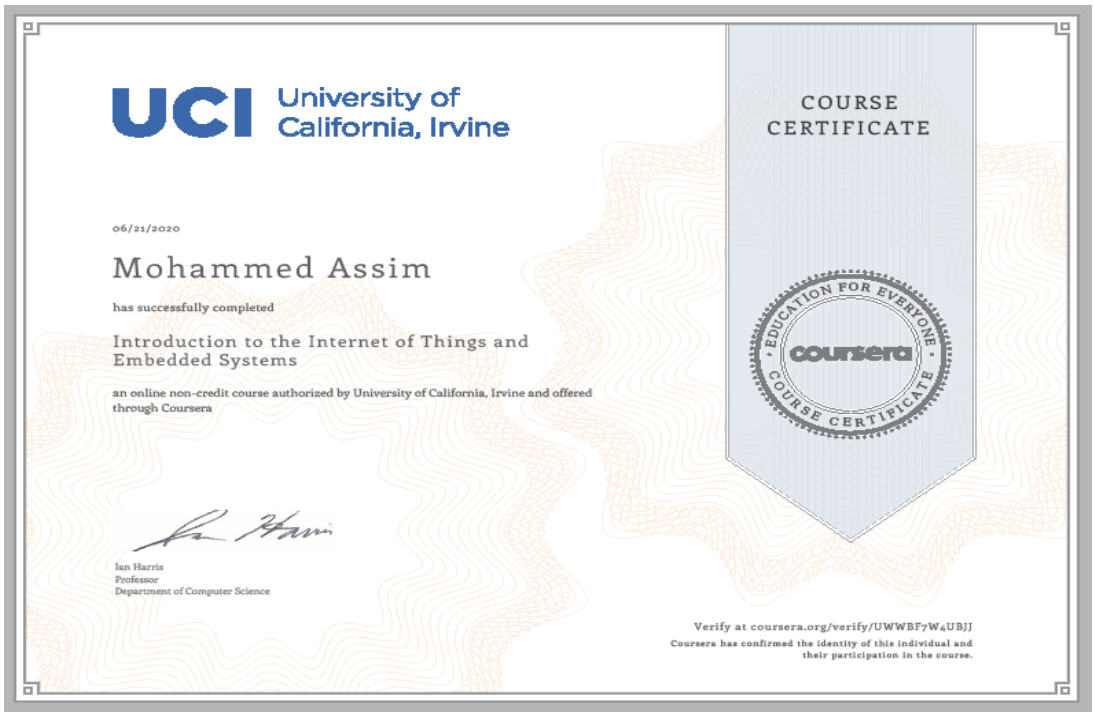
Details are collected through google form

NAME	USN	Have you registered for Online course	Provide the Course detail	Upload the Course registration screen shot	Have you completed Online course	Upload the Course Certificate
Gulabi P	4AD15EE012	Yes	Electrodynamics: Analysis of el	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Rakshith K N	4AD16EE034	Yes	Electric industry operations and	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Rohith D	4AD16EE036	Yes	Electrodynamics: Analysis of El	https://drive.google.com/open?	Yes	https://drive.google.com/open?
AKSHAY D	4AD17EE001	Yes	Python	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Arpitha R	4AD17EE002	Yes	Electrodynamics analysis of ele	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Asha P	4AD17EE004	Yes	Microcontroller Embedded C p	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Asha P	4AD17EE004	Yes	The Internet of thing (IoT)2020	https://drive.google.com/open?	Yes	https://drive.google.com/open?
ASHWINI DS	4AD17EE006	Yes	Electrodynamics: Analysis of El	https://drive.google.com/open?	Yes	https://drive.google.com/open?
B Roshan	4AD17EE007	Yes	Electrodynamics, Electric Indu	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Deepthi M	4AD17EE008	Yes	Electric Power Systems	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Dhanyatha M	4AD17EE009	Yes	Electro dynamics - Analysis of e	https://drive.google.com/open?	Yes	https://drive.google.com/open?
HARSHA K M	4AD17EE012	Yes	Electrodynamics	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Manoj k.n	4AD17EE019	Yes	Electrodynamics	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Mohamed Faris	4ad17ee021	Yes	Energy. Enterprises	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Mohammed shah Faisal mp	4AD17EE023	Yes	System management	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Rachana K Gowda	4AD17EE028	Yes	Python	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Ramyashree. S	4AD17EE029	Yes	Electrodynamics - Analysis of E	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Ruquia naaz khanum	4AD17EE030	Yes	Gustovalley technovations	https://drive.google.com/open?	Yes	https://drive.google.com/open?
SAHANA B	4AD17EE031	Yes	Electrodynamics and electrical	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Simrah Fathima	4AD17EE034	Yes	1.) Programming for Everybody	https://drive.google.com/open?	Yes	https://drive.google.com/open?
Sowmya M N	4AD17EE035	Yes	Coursera	https://drive.google.com/open?	Yes	https://drive.google.com/open?

a. Few of the sample certifications by our students

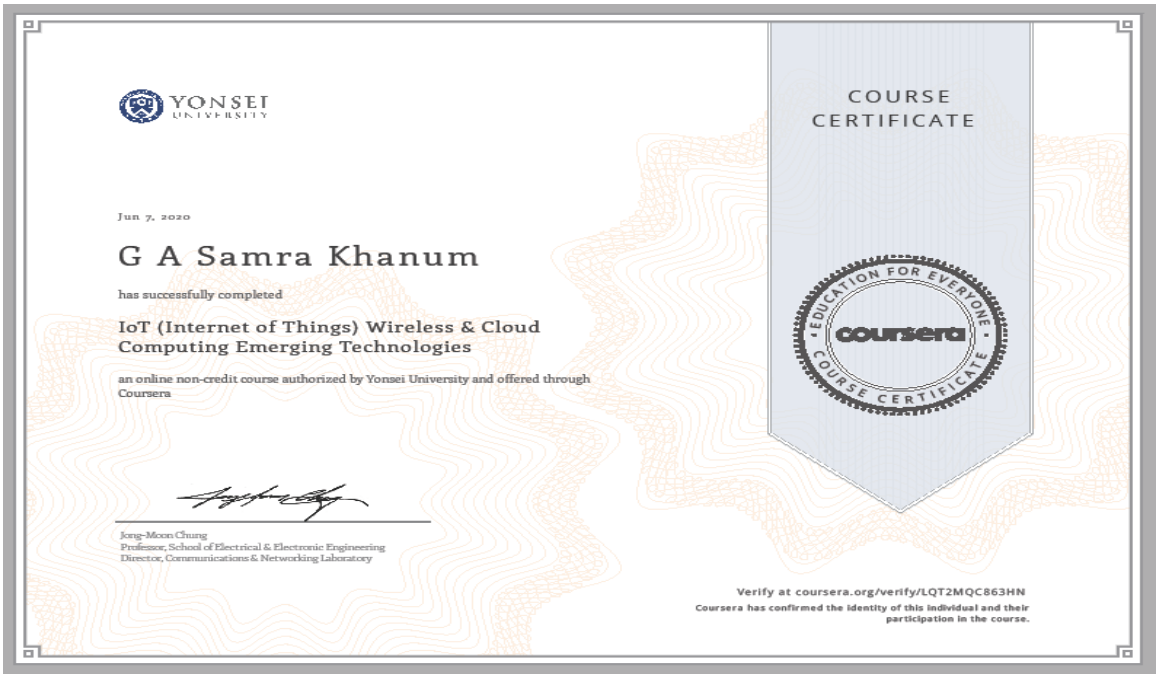
2016-2020 Batch

USN	NAME
4AD16EE022	MOHAMED ASSIM



Department of Electrical and Electronics Engineering

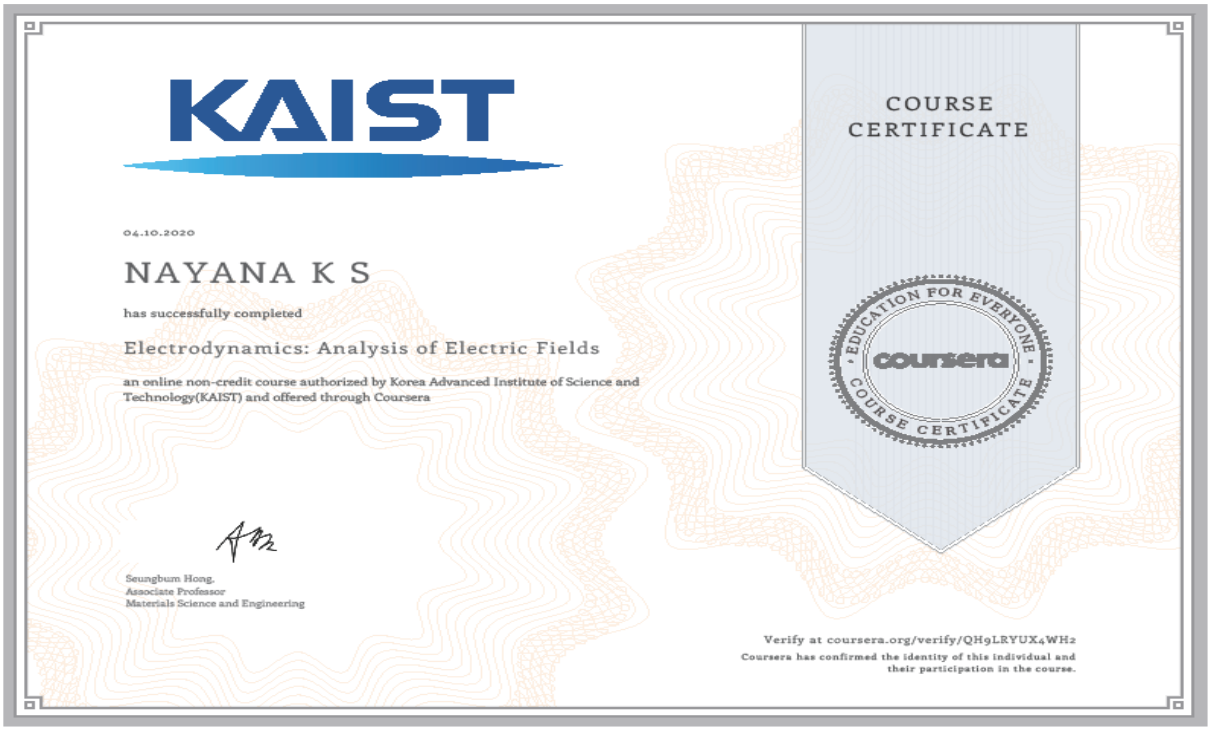
USN	NAME
4AD16EE011	G A SAMRA KHANUM



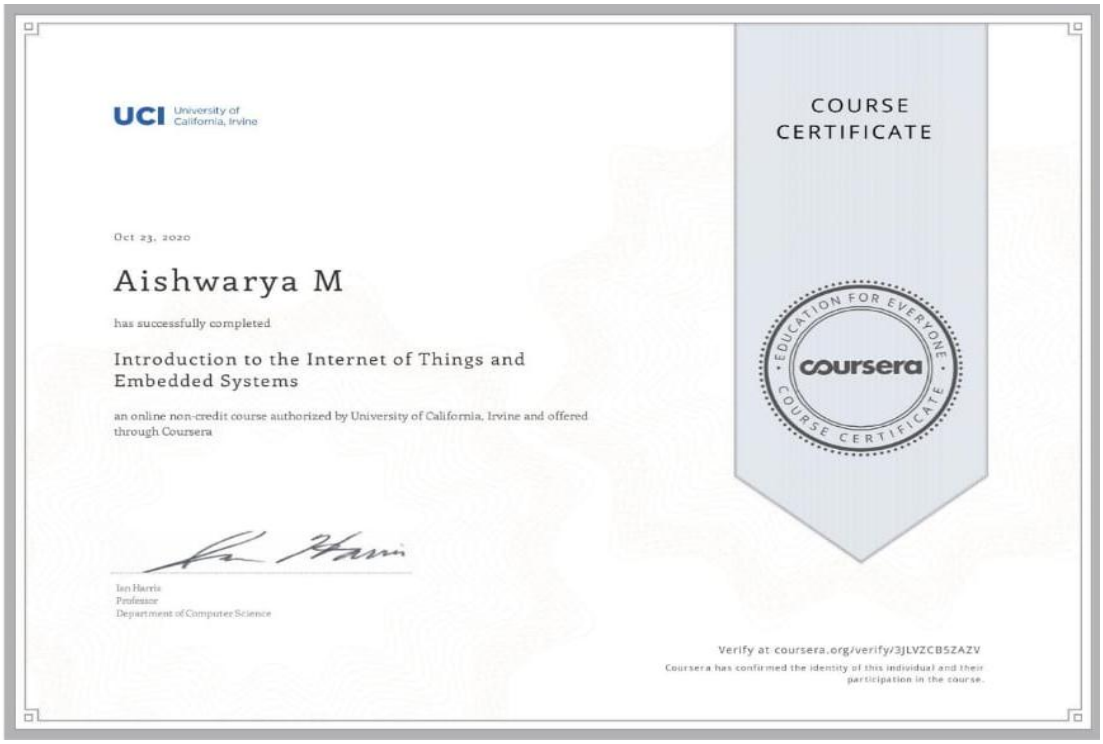
Department of Electrical and Electronics Engineering

2018-2022

USN	NAME
4AD18EE020	NAYANA K S



USN	NAME
4AD18EE003	AISHWARYA M



Department of Electrical and Electronics Engineering

4AD18EE030	YASEEN ULLA KHAN

UNIVERSITY OF MICHIGAN

06/09/2020

Rectangular Snip

Yaseen ulla khan

has successfully completed

Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera

Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE CERTIFICATE

EDUCATION FOR EVERYONE · COURSE CERTIFICATE ·

coursera

Verify at coursera.org/verify/QSWXGB5BSTA7

Coursera has confirmed the identity of this individual and their participation in the course.

HoD
Dr. PARTHASARATHY
Professor and HOD
Dept. of Electrical & Electronics Engineering
ATME College of Engineering, Mysuru

Mechanism of internal assessment is transparent and robust in terms of frequency and mode.

The Department of Electronics and Communication Engineering conducts **three internal assessments.** First assessment will be conducted at 6th week, second at 12th and third at 14th week from the commencement respective semester. The IA Committee informs the test schedule to the faculties and students through a circular. Also the faculties are informed to set the question papers as per the guidelines in the IA Circular and has to mail to the Head of the Department on or before the deadline mentioned in the circular.

The review committee headed by the HOD and the senior Professors of the department will review the question papers set by the faculties and suggest for modifications if any and selects the question paper. Each test will cover one third of the syllabus. After valuation, the scheme and solutions are discussed in the class and the marks are uploaded into the CERP portal. From the CERP portal the results are sent to the parents.

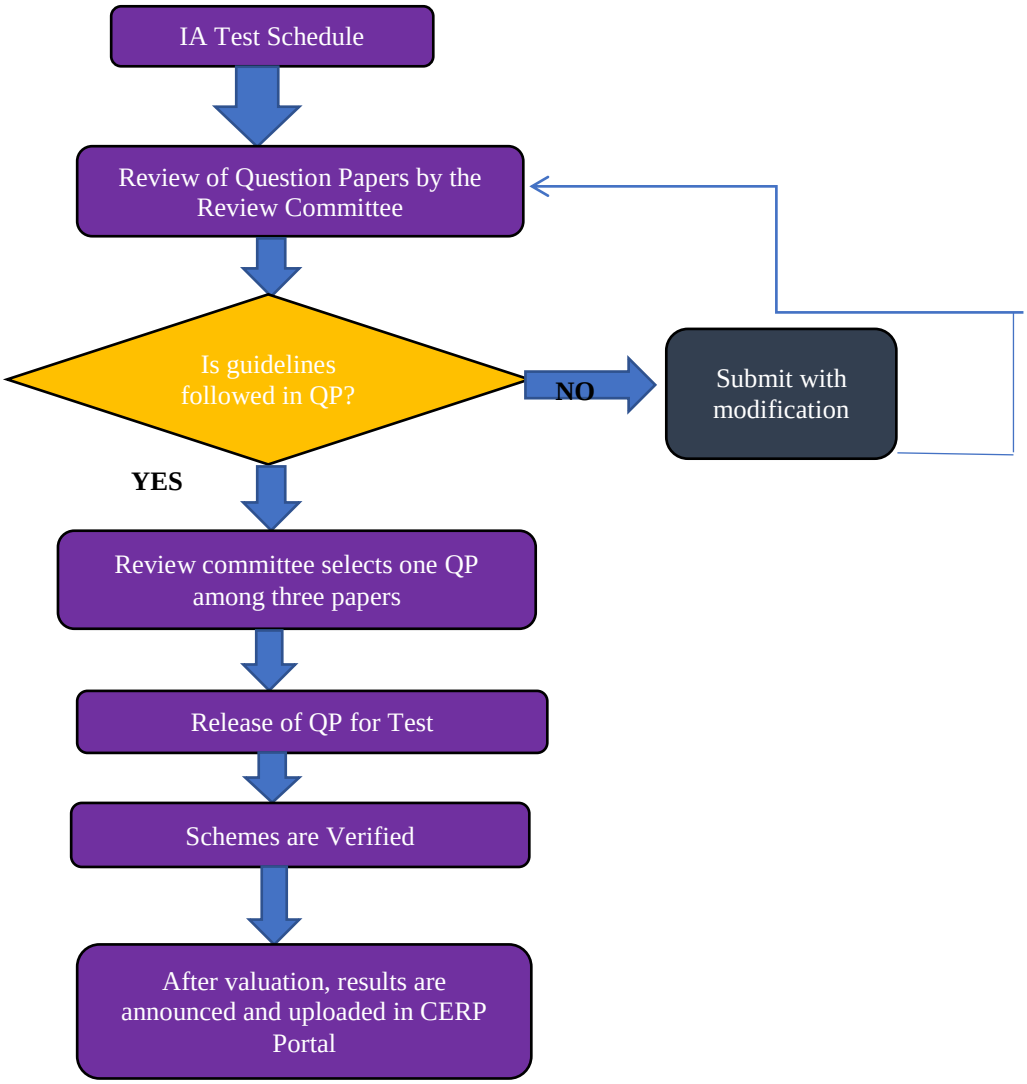


Fig: Test Process

ACADEMIC CALENDAR

ACADEMIC CALENDAR AND ADHERENCE

Adherence for the AY:2019-20 Odd Sem

Sl. No.	Activity	Planned Date	Implemented Date	Remarks
1	Commencement of Odd Sem	29th July 2019	29th July 2019 8th Aug 2019	As planned for III and V Sem but VII Sem postponed
2	Induction Program for III and V Sem	29th and 30th July 2019	29th and 30th July 2019	As planned
3	Submission of LP, CM	16th Aug 2019	16th Aug 2019	As planned
4	First Phase Project Review for 7th Sem	7th Sep 2019		
5	First IA	12th , 13th and 14th of Sep 2019	12th , 13th and 14th of Sep 2019	As Planned
6	Technical talk on " Recent Trends in Power Electronics" for 3rd Sem Students	20th Sep 2019		
7	One day workshop on VLSI Cadence for 5th Sem	30th Sep 2019		
8	Second IA	18th , 21st and 22nd of Oct 2019	18th , 21st and 22nd of Oct 2019	As Planned
9	Third IA	22nd, 23rd and 25th of Nov 2019	22nd, 23rd and 25th of Nov 2019	As Planned
10	Last Working Day	30th Nov 2019	30th Nov 2019	As Planned

HOD
Dept. of ECE
Professor & Head
Dept. of Electronics & Communication
ATME COLLEGE OF ENGINEERING
Mysuru - 570 028

SAMPLE TEST PROCESS: 2019-20

IA TEST III PROCESS

A. TIME TABLE

ATME College of Engineering
Department of Electronics and Communication Engineering

Third Internal Assessment Time table 2019-20 ODD Sem

Dates	TIMINGS: 9:30AM to 11:00AM			TIMINGS: 3:00PM to 04:30PM		
	3rd Sem	5th Sem	7th Sem	3rd Sem	5th Sem	7th Sem
20/11/2019				18KAK39 Adalitha Kannada (3.30-4.30pm)		
22/11/2019	18EC33 Electronic Devices	17EC53 Verilog HDL		18EC34 Digital System Design	17EC54 Information Theory & Coding	
23/11/2019	18EC35 Computer Organisation and Architecture	17EC553 Operating System	15EC73 Power Electronics	18EC36 Power Electronics & Instrumentation	17EC561 Automotive Electronics	15EC741 Multimedia Communication
25/11/2019	18EC31 Engineering Mathematics -III	17ES51 Management & Entrpreneurship Development	15EC71 Microwaves & Antennas	18EC32 Network Theory	17EC52 Digital Signal Processing	15EC72 Digital Image Processing
26/11/2019			15EC755 Satellite Communication			

NOTE
1.Student should attend all Internal Assessments compulsorily
2.Student has to report in the examination hall before 10 min of the commencement of the test.
3.Student should be present in the examination hall for at least one hour after the Test started.

Examination Committee

Prof. & Head
Dept. of Electronics & Communication
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ATME College of Engineering
Department of Electronics and Communication Engineering

Second Internal Assessment Time table 2019-20 ODD Sem for Lateral Entry Students

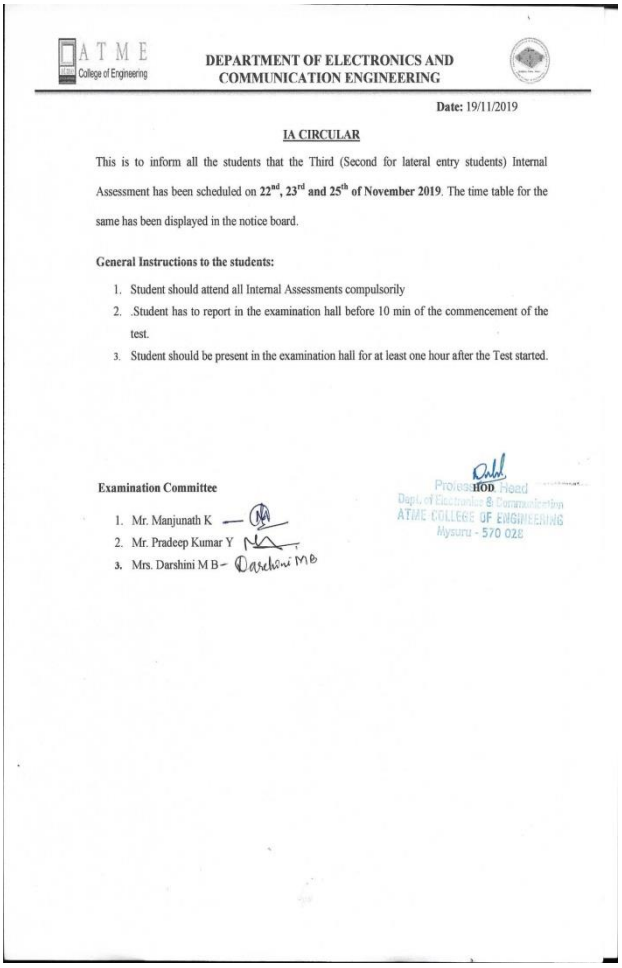
Dates	TIMINGS: 9:30AM to 11:00AM	TIMINGS: 3:00PM to 04:30PM
	3rd Sem	3rd Sem
20/11/2019		18KAK39 Adalitha Kannada (3.30-4.30pm)
22/11/2019	18EC36 Power Electronics & Instrumentation	18EC35 Computer Organisation and Architecture
23/11/2019	18EC32 Network Theory	18EC34 Digital System Design
25/11/2019	18EC31 Engineering Mathematics -III	18EC33 Electronic Devices

NOTE
1.Student should attend all Internal Assessments compulsorily
2.Student has to report in the examination hall before 10 min of the commencement of the test.
3.Student should be present in the examination hall for at least one hour after the Test started.

Examination Committee

Prof. & Head
Dept. of Electronics & Communication
ATME COLLEGE OF ENGINEERING
Mysuru - 570 028

B. IA CIRCULAR



A T M E College of Engineering

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 19/11/2019

IA CIRCULAR

This is to inform all the students that the Third (Second for lateral entry students) Internal Assessment has been scheduled on **22nd, 23rd and 25th of November 2019**. The time table for the same has been displayed in the notice board.

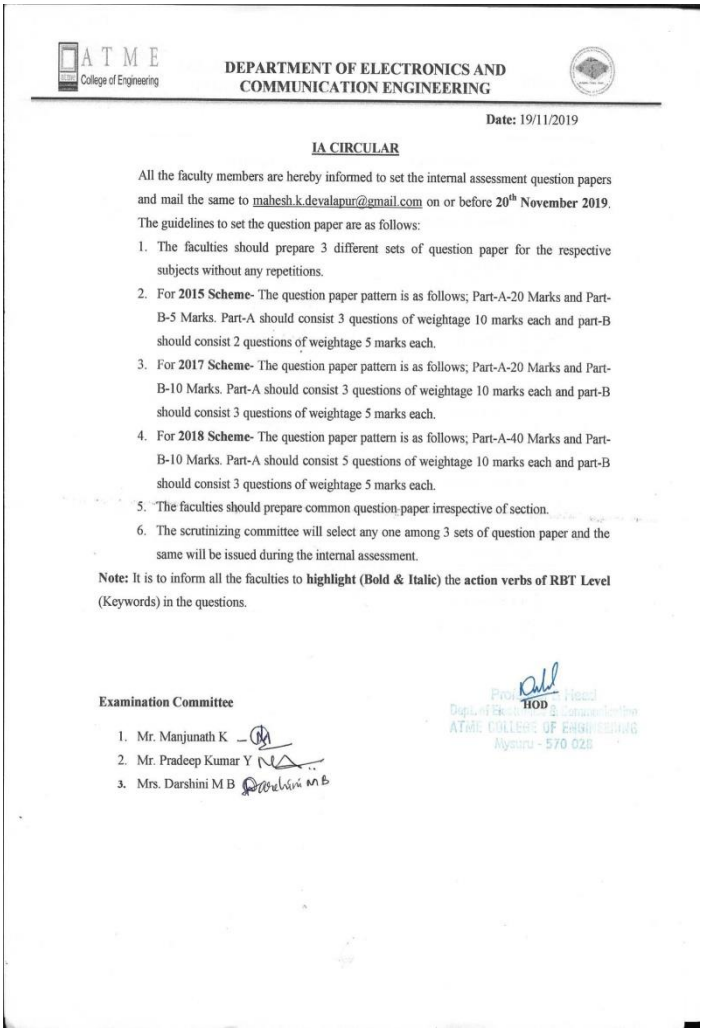
General Instructions to the students:

1. Student should attend all Internal Assessments compulsorily
2. .Student has to report in the examination hall before 10 min of the commencement of the test.
3. Student should be present in the examination hall for at least one hour after the Test started.

Examination Committee

1. Mr. Manjunath K
2. Mr. Pradeep Kumar Y
3. Mrs. Darshini M B – Darshini MB

Professor & HOD Head
Dept. of Electronics & Communication
ATME COLLEGE OF ENGINEERING
Mysuru - 570 028



A T M E College of Engineering

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 19/11/2019

IA CIRCULAR

All the faculty members are hereby informed to set the internal assessment question papers and mail the same to mahesh.k.devalapur@gmail.com on or before **20th November 2019**. The guidelines to set the question paper are as follows:

1. The faculties should prepare 3 different sets of question paper for the respective subjects without any repetitions.
2. For **2015 Scheme-** The question paper pattern is as follows; Part-A-20 Marks and Part-B-5 Marks. Part-A should consist 3 questions of weightage 10 marks each and part-B should consist 2 questions of weightage 5 marks each.
3. For **2017 Scheme-** The question paper pattern is as follows; Part-A-20 Marks and Part-B-10 Marks. Part-A should consist 3 questions of weightage 10 marks each and part-B should consist 3 questions of weightage 5 marks each.
4. For **2018 Scheme-** The question paper pattern is as follows; Part-A-40 Marks and Part-B-10 Marks. Part-A should consist 5 questions of weightage 10 marks each and part-B should consist 3 questions of weightage 5 marks each.
5. The faculties should prepare common question paper irrespective of section.
6. The scrutinizing committee will select any one among 3 sets of question paper and the same will be issued during the internal assessment.

Note: It is to inform all the faculties to **highlight (Bold & Italic)** the **action verbs of RBT Level** (Keywords) in the questions.

Examination Committee

1. Mr. Manjunath K
2. Mr. Pradeep Kumar Y
3. Mrs. Darshini M B

Professor & HOD Head
Dept. of Electronics & Communication
ATME COLLEGE OF ENGINEERING
Mysuru - 570 028

C. INVIGILATORS ALLOTMENT

ATME College of Engineering — Department of Electronics and Communication

Date: 21-11-2019

INVIGILATORS SCHEDULE

AY-2019-2020 (ODD SEMESTER)

Third Internals

Date	Session	ROOM NUMBER					
		201	202	206	207	208	209
22/11/2019 Friday	FN	GP	ABI	SNP	JF	ACP	GM
	AN	CSP	GM	JF	ABI	GP	———
23/11/2019 Saturday	FN	SNP	GP	GM	CSP	AS	ACP
	AN	AS	ACP	CSP	GP	HN	KAK
25/11/2019 Monday	FN	JF	AS	ABI	ACP	KAK	HN
	AN	ABI	HN	KAK	GM	SNP	CSP
26/11/2019 Tuesday				AS	KAK	GM	JF

Initials	Faculty Name	Signature	Initials	Faculty Name	Signature
ACP	Mrs. PAVITHRA A C		GM	Mr. GIRISH M	
ABI	Mr. ABHILASH G		HN	Mrs. HARSHITHA N	
CSP	Mr. CHANDRASHEKAR P		JF	Mrs. JUSLIN F	
GP	Mr. GURUPRASAD K N		KAK	Mrs. .KEERTHI A KUMBAR	Keerthi
SNP	Mr. PRAJWALA SIMHA S N		AS	Ms. ANUPAMA SHETTER	

EXAMINATION COMITEE

Parashiva M B

HOD

D. STUDENT ATTENDANCE SHEET

ATME College of Engineering — Department of Electronics and Communication

3rd INTERNAL ASSESMENT ATTENDANCE LIST

CLASS: 3rd C | AY: 2019-2020(ODD) | LECTURE HALL: 206

SL NO	USN	NAME	30-11-2019		02-12-2019		3-12-19	9-12-19
			18EC36	18EC34	18EC32	18EC35	18EC33	18EC31
1		ACHUTHA						
2		BHAVANKUMAR N						
3		CHAITRA M L						
4		CHINMAYI R						
5.		DARSHAN H M						
6		DARSHAN K S						
7		HARSHITH G						
8		HEMANTHKUMAR G V						
9		KAVERI K M						
10		KIRAN A						
11		KRUTHI M J						
12		KUPENDRA						
13		MAMATHA M B						
14		MANASA K R						
15		MANOJ L						
16		MOHAMMED YOUNUS						
17		MONISHA S						
18		RAMYA N						
		REMARKS	- Nil -		Nil		Nil	
		INVIGILATOR INITIAL	PCy		Dr. PK		GP	
		SIGNATURE						

ATME College of Engineering — Department of Electronics and Communication

3rd INTERNAL ASSESMENT ATTENDANCE LIST

CLASS: 3rd B | AY: 2019-2020(ODD) | LECTURE HALL: 207

SL NO	USN	NAME	22-11-2019		23-11-2019		25-11-2019	
			18EC33	18EC34	18EC35	18EC36	18EC33	18EC32
1	4AD18EC046	PRANEETH JAIN S S						
2	4AD18EC050	RAVISHANKAR B S						
3	4AD18EC052	ROHAN U						
4	4AD18EC054	SANJANA R						
5	4AD18EC056	SARIYA ANJUM						
6	4AD18EC058	SINCHANA S						
7	4AD18EC060	SOWJANYA						
8	4AD18EC062	SUNIL K						
9	4AD18EC064	SWATHI B						
10	4AD18EC066	TEJUS KUMAR S D						
11	4AD18EC068	THEJASWINI K						
12	4AD18EC070	UDAY GOWDA H C						
13	4AD18EC072	VAISHNAVI V						
14	4AD18EC074	VIKAS M K						
		REMARKS	14/14	14/14	14/14	14/14	14/14	14/14
		INVIGILATOR INITIAL	JF	KAK	CSP	GP	ACP	GM
		SIGNATURE						

E. SAMPLE IA QUESTION PAPER AND SCHEME

ATME College of Engineering

DEPT. OF ELECTRONICS AND COMMUNICATION ENGINEERING

THIRD INTERNAL ASSESMENT

SUB CODE	:	18EC33	TIME	:	9.30AM-11.00AM
SUBJECT	:	ELECTRONIC DEVICES	DATE	:	03-12-2019
SEM	:	III SEM (C SEC)	MAX. MARKS	:	50

	PART-A Answer any FOUR full questions (10 Marks each)	COs	RBT Level
01.	***Explain*** the Ebers–Moll Model. ***Elaborate*** the answer, with an equivalent circuit synthesizing the Coupled-Diode equations.	CO4	L1, L2
02.	***What*** are the various mechanisms involved in switching cycle of a transistor? ***Make use of*** common emitter configuration, to illustrate switching effects in a transistor circuit.	CO2	L1, L2
03.	***What*** is Base narrowing? With the help of diagram, ***explain*** Early Effect on the characteristics of a p+np+ transistor.	CO2	L1, L2
04.	***What*** are switching transistors. ***Explain*** various specifications of switching transistors.	CO2	L1, L2
05.	With the help of neat diagrams, ***explain*** the process flow for double poly-silicon, self-aligned n-p-n BJT.	CO3	L1, L2, L3

PTO

	PART B Answer any two question (5 Marks)	COs	R Lev
06.	***Briefly*** explain, Punch-through effect, and Pinch-off voltage.	CO3	L1
07.	***Calculate*** the cutoff frequency of a silicon JFET, with the following parameters: $\mu_n = 1000\ cm^2/V\text{-}s$, $N_d = 5x10^{15}\ cm^{-3}$, a = 0.50 µm, L = 2µm, $\varepsilon_r = 11.8$	CO4	L1, L2
08.	***Differentiate*** between a BJT and a FET	CO4	L1

Course Outcomes		RBT LEVELS	
CO1	Describe the principles of semiconductor Physics	L1:Remebering	L4:Analyzing
CO2	Explain the principles and characteristics of different types of semiconductor devices	L2:Understanding	L5:Synthesizing
CO3	Illustrate the fabrication process of semiconductor devices	L3:Applying	L6:Evaluating
CO4	Utilize the mathematical models of semiconductor junctions and MOS transistors for circuits and systems.		

ATME College of Engineering
Department of Electronics and Communication

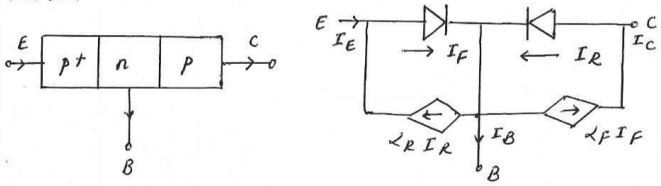
SCHEME AND SOLUTION

Subject Title: Electronic Devices **Subject Code: 18EC33**

CO1	Describe the principles of semiconductor Physics
CO2	Explain the principles and characteristics of different types of semiconductor devices
CO3	Illustrate the fabrication process of semiconductor devices
CO4	Utilize the mathematical models of semiconductor junctions and MOS transistors for circuits and systems.

Bloom's Taxonomy Levels

L1: Remembering **L2:** Understanding **L3:** Applying **L4:** Analyzing **L5:** Synthesizing **L6:** Evaluating

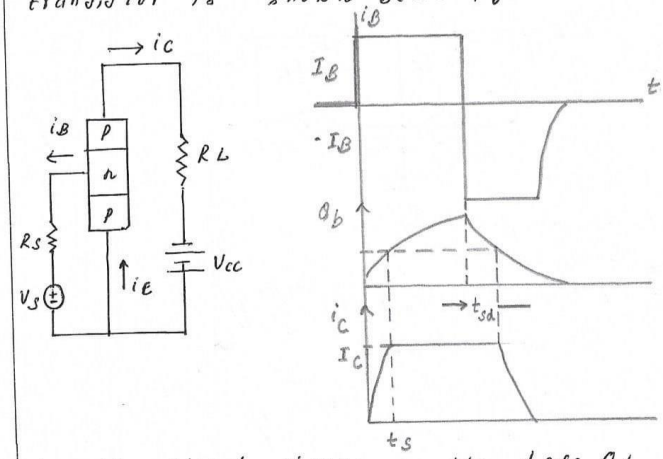
Question No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
01	Ebers Moll Model Ebers Moll model is a simple way of representing the transistor as a circuit model.	01		
		02	CO4	L1 L2
	Emitter current I_E is given by $I_E = I_F - \alpha_R I_R$ $I_E = I_{EO}(e^{V_{EB}/V_T} - 1) - \alpha_R I_{CO}(e^{V_{CB}/V_T} - 1)$	01		
	Collector current I_C is given by $I_C = \alpha_F I_F - I_R$ $I_C = \alpha_F (e^{V_{EB}/V_T} - 1) - I_{CO}(e^{V_{CB}/V_T} - 1)$	01		
	Base current $I_B = I_E - I_C$	01		
	In Active mode, $I_E = \alpha_F I_{EO}(e^{V_{EB}/V_T} - 1) + I_{CO}$ $I_E = I_{EO}(e^{V_{EB}/V_T} - 1) + \alpha_R I_{CO}$ Let $\alpha_F I_{EO} = I_S = \alpha_R I_{CO}$	01 01		

Signature of Faculty H.O.D

ATME College of Engineering
Department of Electronics and Communication

SCHEME AND SOLUTION

Subject Title: Electronic Devices **Subject Code: 18EC33**

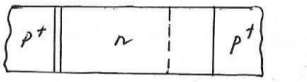
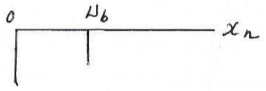
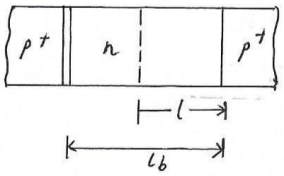
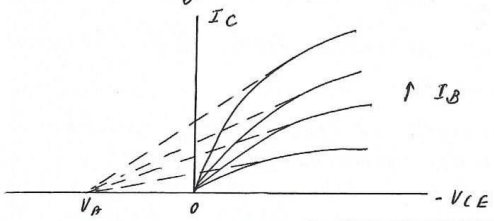
Question No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
	$I_{E0} = \frac{I_S}{\alpha_F}$ and $I_{C0} = \frac{I_S}{\alpha_R}$ Now, $I_E = \frac{I_S}{\alpha_F}(e^{V_{EB}/V_T} - 1) - I_S(e^{V_{CB}/V_T} - 1)$ $I_C = I_S(e^{V_{EB}/V_T} - 1) - \frac{I_S}{\alpha_R}(e^{V_{CB}/V_T} - 1)$	01 01		
02	The switching effects in a common-emitter transistor is shown below fig.  As the stored charge in the base Q_b increases, there is an increase in the collector current i_C. The collector current does not increase beyond its value at the beginning of ts. While Q_b rises to its value Q_S, exponential increase in collector current I_C.	02 03 01 01	CO2	L1 L2

Signature of Faculty

H.O.D

A T M E College of Engineering

Department of Electronics and Communication

Question No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
	There is a storage delay time 'tsd'.	01		
	After the stored charge is reduced below 0s, ic drops exponentially with characteristic fall time.	01		
03	The variation in the effective width of the base in a BJT due to variation in the applied base-to-collector voltage is called base narrowing.	02	CO2	L1 L2
	 $V_{CB} = 0$	02		
				
	 $V_{CB} << -\frac{KT}{q}$	02		
	Increase in the reverse bias across the CB junction, increases collector-base junction depletion width, there by decreasing the width of base region (W_b).	02		
		01		

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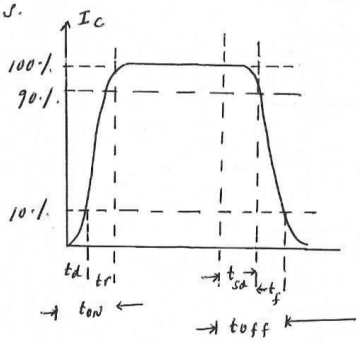
ATME College of Engineering
Department of Electronics and Communication

Question No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
	Tangents to the characteristics at large voltages extrapolate backward to intercept the voltage axis at a voltage called the Early voltage.			
04	Switching transistors: The transistors which are designed to operate at high speed between cut-off and saturation are called switching transistors.  $t_{ON} = t_d + t_r$ t_d : Delay time : 0 to 10% of $I_c(sat)$ t_r : rise time : 10% to 90% of $I_c(sat)$ $t_{off} = t_{sd} + t_f$ t_{sd} : storage delay time t_f : fall time : to decrease from 90% to 10% of $I_c(sat)$. Due to stored charges in the base, the collector current remains at $I_c(sat)$ over the interval t_{sd}.	02 02 01 01 01 01 01 01	CO2	L1 L2

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ATME College of Engineering
Department of Electronics and Communication

Question No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
05	process flow for double polysilicon, self aligned n-p-n BJT. step 1. n+ buried layer formation + diagram step 2. 'n' epitaxy followed by LOCOS isolation + diagram step 3. Base-emitter window definition and masked "sinker" implant (P) into collector contact region + diagram step 4. Intrinsic base implant using self-aligned oxide side wall spacers + diagram step 5. Self aligned formation of n+ emitter as well as n+ collector contact + diagram	2 2 2 2 2	CO3	L1 L2 L3
06	Punch through effect If the reverse bias on the collector junction is increased far enough, the base width (W_b) is reduced to zero, and the collector depletion region fills entire base. In this condition, the holes are swept directly from the emitter regions to the collector, and the transistor action is lost. This effect is called punch-through effect.	2½	CO3	L1

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Question No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
	Pinch-off voltage The level of V_{DS} at which, the two depletion regions would "touch" each other is referred as pinch-off voltage, and it is denoted by V_p.	2 1/2		
07.	$\mu_n = 1000\ cm^2/V\cdot s$ $N_d = 5 \times 10^{15}\ cm^{-3}$ $a = 0.50\ \mu m$ $L = 2\ \mu m$ $\epsilon_r = 11.8$ cut-off frequency f_T is given by $f_T = \frac{e \mu_n N_d a^2}{2\pi \epsilon_s L^2}$ $= \frac{(1.6\times10^{-19})(1000)(5\times10^{15})(0.50\times10^{-4})^2}{2\pi \times 11.8 \times 8.85 \times 10^{-14} \times (2\times10^{-4})^2}$ $f_T = 7.69\ GHz$	02 02 01	CO4	L1

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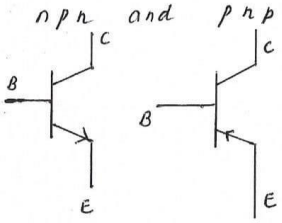
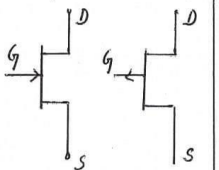
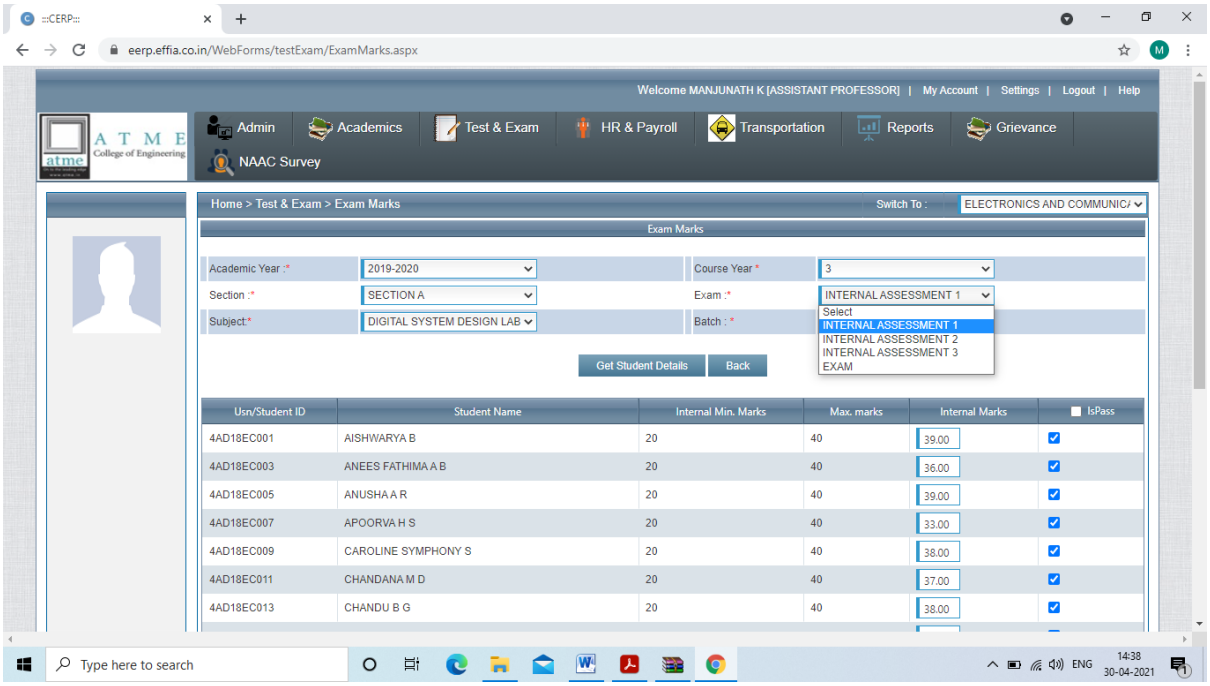
Question No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
8.	Differences between BJT and FET	05	CO4	L1

Parameter	BJT	FET
control element	current controlled device	voltage controlled device
Device type	Bipolar device	Unipolar
Types	npn and pnp	n-channel & p-channel
Symbol	 NPN PNP	 n-channel p-channel
configurations	CE, CB, CC	CS, CG, CD
I/p impedance	Less	High
Size	Bigger	Smaller
Ratio of o/p to i/p	$\frac{\Delta I_C}{\Delta I_B} = \beta$	$\frac{\Delta I_D}{\Delta V_{GS}} = g_m$

Signature of Faculty

H.O.D

F. CERP Screenshots of Test Marks



ONLINE TEST PROCESS

Academic Year 2019-20 (Even Semester)

Due to COVID-19 pandemic the internal assessment during the academic 2019-20 Even Semester was conducted in **ONLINE MODE using Microsoft Teams Platform**. The IA process for the same is as follows:

1. The test schedule was intimated to both faculty and students.
2. The question paper scrutiny was done as earlier.
3. The test was conducted through MS Teams.
4. Each Invigilator was allotted with maximum of 20 students to monitor.
5. Invigilators have to create a separate channel and the allotted students have to join the respective channel.
6. Question Papers were posted in MS Teams at the start of the test.
7. Students were instructed to turn on the video for complete duration of the test without fail.
8. The test invigilation was recorded by each invigilator.
9. Also, the test was monitored by the Head of the Department, Dean (Academics) and Online IA Squad Committee.
10. After completion students were instructed to upload the scripts in the MS Teams only with the file name as **USN_Name**.

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Online Test Process

A. Test Time Table

ATME College of Engineering
Department of Electronics & Communication Engineering
(Accredited by NBA, New Delhi. Validity 01.07.2019 to 30.06.2022)

SECOND IA TIME- TABLE

FOURTH SEMESTER

Date	Subject with code	
	Morning 10:45 AM – 11:45 AM	Afternoon 3:15 PM - 4:15 PM
27-May-2020	18EC43 Control System	18EC46 Microcontroller
28-May-2020	18MAT41 Complex Analysis, ProbabilityAnd Statistical Methods	18EC44 Engineering Statistics & Linear Algebra
29-May-2020	18EC45 Signal and System	18EC42 Analog circuits

SIXTH SEMESTER

Date	Subject with code	
	Morning 10:45 AM – 11:45 AM	Afternoon 3:15 PM - 4:15 PM
27-May-2020	17EC62 ARM Microcontroller &Embedded System	17EC64 Computer Communication Networks
28-May-2020	17EC663 Digital System Design using Verilog	17EC61 Digital communication
29-May-2020	17EC63 VLSI Design	17EC654 Digital Switching System

EIGHTH SEMESTER

Date	Subject with code
	Morning 10:45 AM – 11:45 AM
27-May-2020	15EC835 – Network and Cyber Security
28-May-2020	15EC81 – Wireless Cellular and LTE 4G Broadband
29-May-2020	15EC82 – Fiber Optics and Networks

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B. Sample Student Group and Invigilators Allotment in the Microsoft Teams Channel

A T M E College of Engineering
Department of Electronics & Communication Engineering
(Accredited by NBA, New Delhi. Validity 01.07.2019 to 30.06.2022)

4th sem Invigilation Duty Allotment			
SL.NO.	USN	Student Name	Faculty Initials
1	4AD17EC007	B BERNICE MATTENAI	GP
2	4AD18EC001	AISHWARYA B	
3	4AD18EC003	ANEES FATHIMA A B	
4	4AD18EC005	ANUSHA A R	
5	4AD18EC007	APOORVA H S	
6	4AD18EC009	CAROLINE SYMPHONY S	
7	4AD18EC011	CHANDANA M D	
8	4AD18EC013	CHANDU B G	
9	4AD18EC015	CHETHAN S	
10	4AD18EC017	DASHARATHA A M	
11	4AD18EC019	HAJIRA SIMRAN	
12	4AD18EC021	HARSHITHA H J	
13	4AD18EC023	HITHASHREE S G	
14	4AD18EC025	KARTHIK R	
15	4AD18EC027	LAKSHITH GOWDA J K	
16	4AD18EC029	LIKHITH VIJAY KUMAR GOWDA H V	
17	4AD18EC031	MANSOOR FATHAK	
18	4AD18EC033	MEGHANA S	
19	4AD18EC035	NANDITHA A	AS
20	4AD18EC037	NAVANEETH M	
21	4AD18EC039	NEHA D R	
22	4AD18EC041	P BALAKRISHNA	
23	4AD18EC043	POOJA V	
24	4AD18EC047	PRASHANTH Y S	
25	4AD18EC049	RAMYA K	
26	4AD18EC051	RIYANKA K	
27	4AD18EC053	SANGEETHA K S	
28	4AD18EC055	SARA SIMRAN	
29	4AD18EC057	SHEETAL K ATHREYA	
30	4AD18EC059	SOMASHEKAR M N	
31	4AD18EC061	SUMAN S	
32	4AD18EC063	SUSHMITHA P	
33	4AD18EC065	TEJASWINI E	
34	4AD18EC067	THANUSHREE D	
35	4AD18EC069	THEJASWINI P	
36	4AD18EC071	VAISHNAVI G	
37	4AD18EC073	VARUN R S	SVS
38	4AD17EC022	DARSHAN KUMAR C B	
39	4AD18EC002	ANANDA H K	
40	4AD18EC004	ANNAPOORNA D	
41	4AD18EC006	ANUSHA B	
42	4AD18EC008	BHAVANI J	

A T M E College of Engineering
Department of Electronics & Communication Engineering
(Accredited by NBA, New Delhi.
Validity 01.07.2019 to 30.06.2022)

105	4AD16EC073	SUHAS P	
106	4AD16EC074	SUJAN R	
107	4AD16EC076	SWARNAGOWRI S	
108	4AD16EC077	SYEDA ZAIBA SANIYA	
109	4AD16EC078	TEJAS KUMAR M	
110	4AD16EC079	URMILA S	
111	4AD16EC083	VINUTHA H P	
112	4AD16EC086	YASHASWINI M Y	
113	4AD16EC087	YASHWANTH KUMAR AB	
114	4AD16EC088	YASHWANTH V	
115	4AD16EC089	SYED FAZIL AHMED	
116	4AD16EC090	AAQHIB AHMED K	
117	4AD16EC405	ARPITHA C R	
118	4AD16EC430	NITHISH ATHREYAS S R	
119	4AD17EC401	ANIRUDHA B S	
120	4AD17EC404	DARSHAN B S	
121	4AD17EC409	KAVYASHREE H E	PKY
122	4AD17EC411	MEGHASAJJAN P R	
123	4AD17EC413	MUNNA K C	
124	4AD17EC416	NAVANEETH C S	
125	4AD17EC420	RAKESH S	
126	4AD17EC421	RANJINI D R	
127	4AD17EC424	SHIVA S	
128	4AD17EC425	SHYAMSUNDAR P	
129	4AD17EC427	SURYAPRASAD G N	
130	4AD17EC428	SWATHI S	

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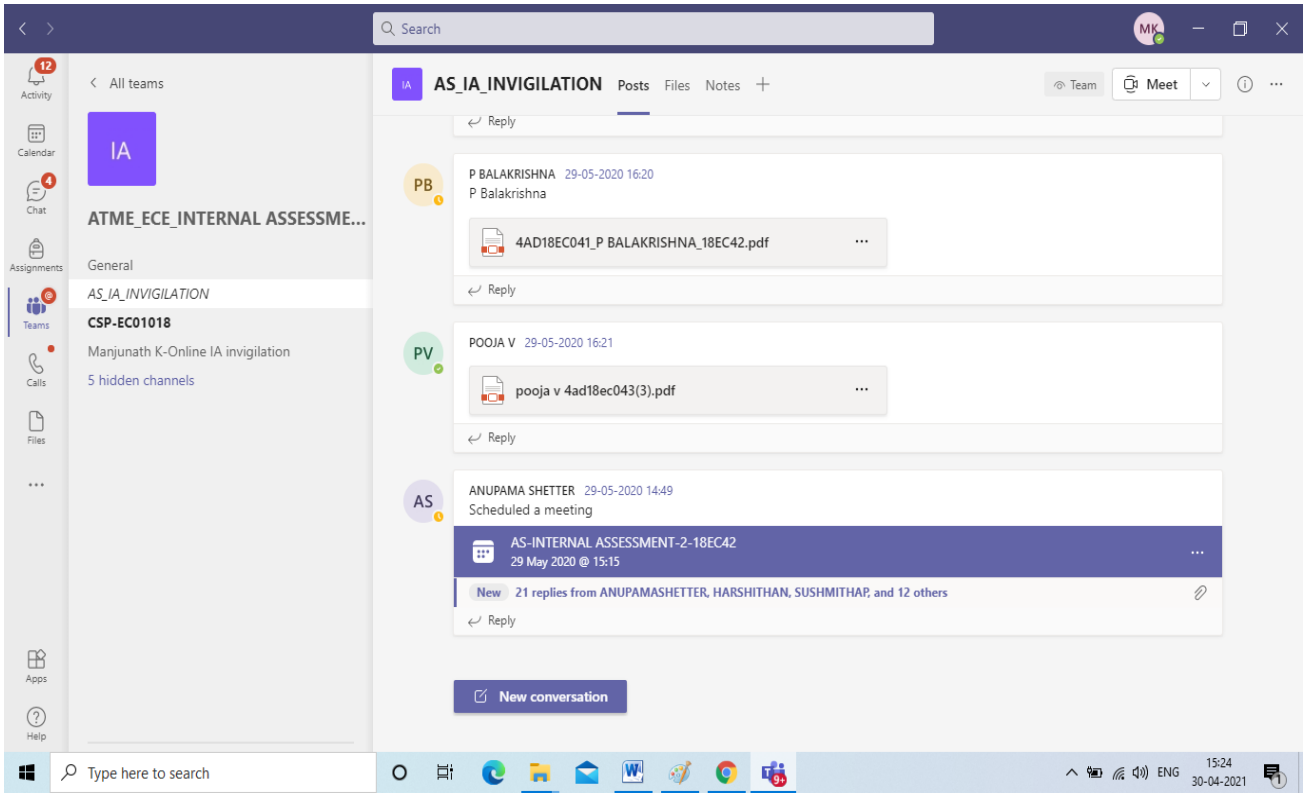
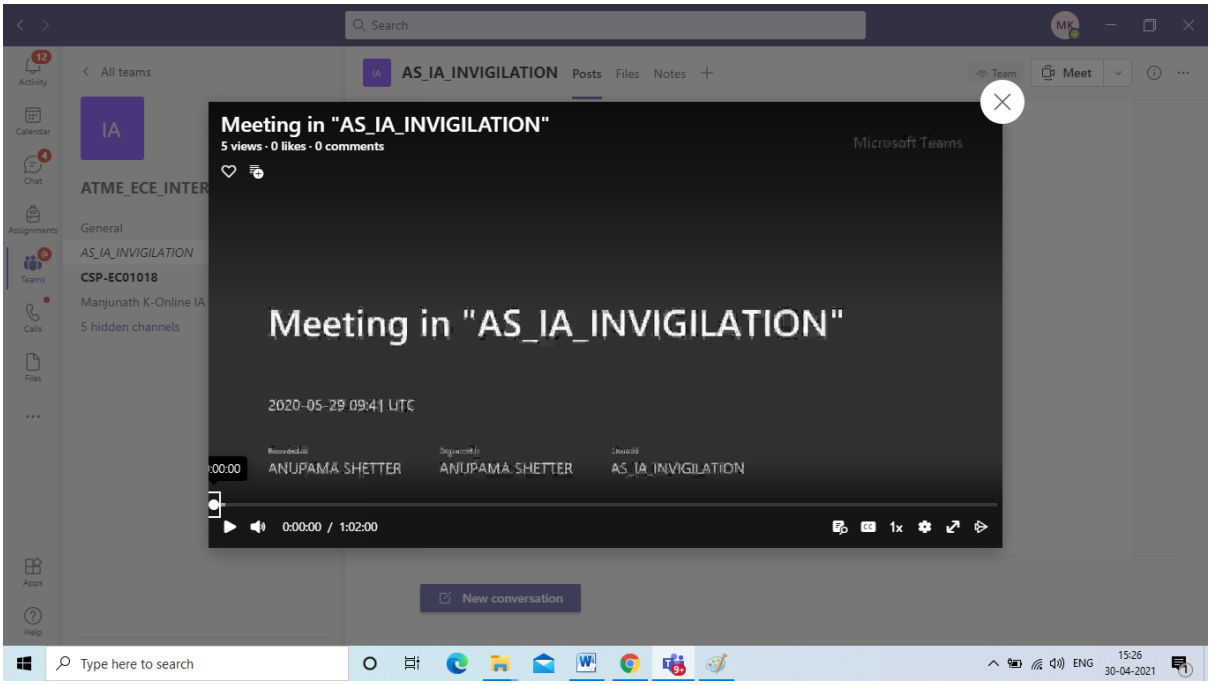
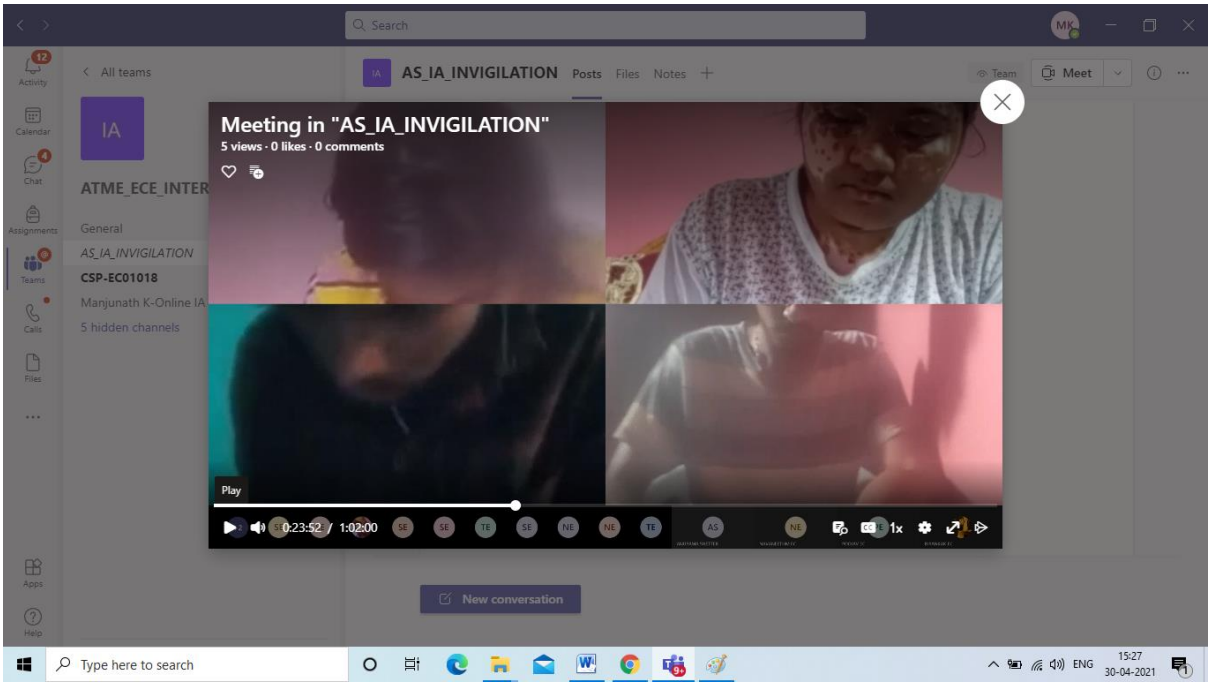
C. Screenshots of the MS Teams Channel



D. Screenshots of the recordings of the Invigilation Video



E.



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Dept. of Electronics & Communication
ATME COLLEGE OF ENGINEERING
Mysuru - 570 028

Mechanism of internal assessment is transparent and robust in terms of frequency and mode

The Department conducts three internal assessment tests at approximately 6th, 12th and 14th week respectively. The faculties are informed about the test schedule and instructed to set two sets of Question paper. HOD will select the Question paper and for that scheme of valuation will be written by the faculty

Each test is intended to cover approximately one third of the syllabus. On completion of the Valuation, Scheme of valuation is discussed and Results are announced by Faculty members in their class session. The IA Test marks is uploaded in CERP portal

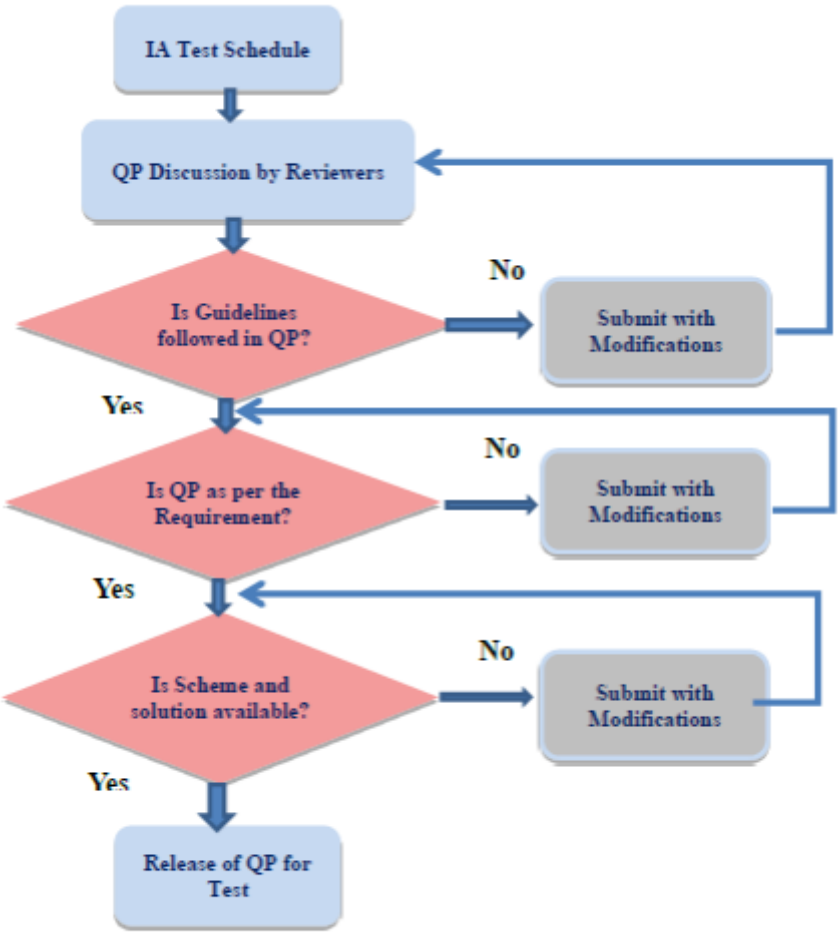

Fig:Test Process

ATME College of Engineering

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ACADEMIC CALENDER

ATME College of Engineering

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Adherence for the Academic Year 2019-20

Particulars	Date as Planned on	Date Done on	Remarks
Commencement Of Classes	July 29	As Planned	-
Technical Talk	Sep 26, Oct 10, Nov 5	Sept 27, Oct 23, Nov 13	-
Industrial Visit	Aug 30, Sep 20	Sept 6	-
Industrial Outreach Program	Nov 5	-	Non availability of dates with the Professional body for conducting the activity
I Internal Test	Sept 12, 13, 14	As Planned	-
II Internal Test	Oct 18, 21, 22	As Planned	-
III Internal Test	Nov 22, 23, 25	As Planned	-
Lab Internal Test	Nov 26 - 29	As Planned	-
Last Working Day	Nov 30	As Planned	-

HOD

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Department of Civil Engineering
ATME College of Engineering
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SAMPLE TEST PROCESS:2019-2020

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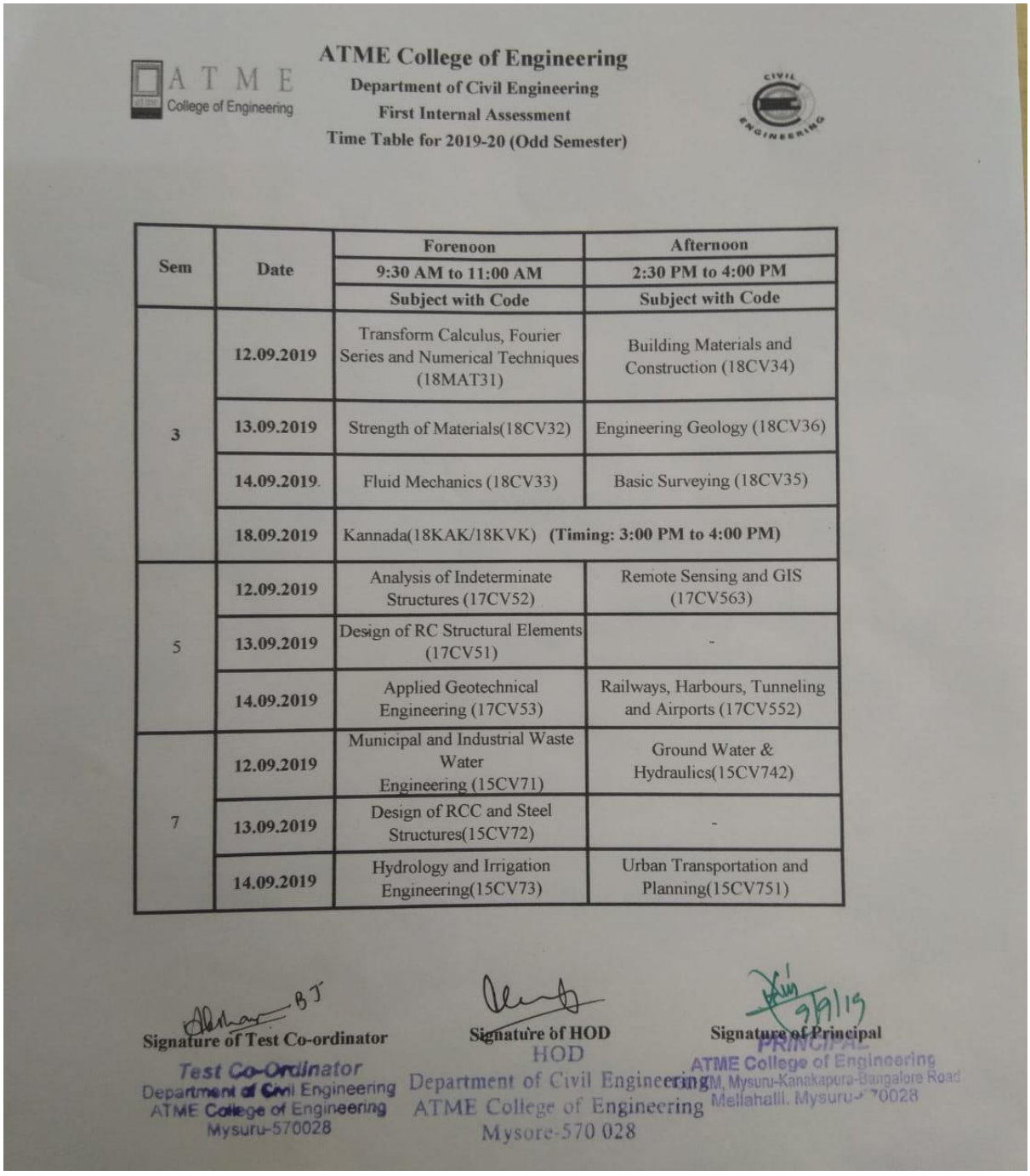
IA TEST I PROCESS

A. TIME TABLE



ATME College of Engineering
Department of Civil Engineering
First Internal Assessment
Time Table for 2019-20 (Odd Semester)

Sem	Date	Forenoon	Afternoon
		9:30 AM to 11:00 AM	2:30 PM to 4:00 PM
		Subject with Code	Subject with Code
3	12.09.2019	Transform Calculus, Fourier Series and Numerical Techniques (18MAT31)	Building Materials and Construction (18CV34)
	13.09.2019	Strength of Materials(18CV32)	Engineering Geology (18CV36)
	14.09.2019	Fluid Mechanics (18CV33)	Basic Surveying (18CV35)
	18.09.2019	Kannada(18KAK/18KVK) **(Timing: 3:00 PM to 4:00 PM)**	
5	12.09.2019	Analysis of Indeterminate Structures (17CV52)	Remote Sensing and GIS (17CV563)
	13.09.2019	Design of RC Structural Elements (17CV51)	-
	14.09.2019	Applied Geotechnical Engineering (17CV53)	Railways, Harbours, Tunneling and Airports (17CV552)
7	12.09.2019	Municipal and Industrial Waste Water Engineering (15CV71)	Ground Water & Hydraulics(15CV742)
	13.09.2019	Design of RCC and Steel Structures(15CV72)	-
	14.09.2019	Hydrology and Irrigation Engineering(15CV73)	Urban Transportation and Planning(15CV751)

Signature of Test Co-ordinator
Test Co-Ordinator
Department of Civil Engineering
ATME College of Engineering
Mysuru-570028

Signature of HOD
HOD
Department of Civil Engineering
ATME College of Engineering
Mysore-570 028

Signature of Principal
PRINCIPAL
ATME College of Engineering
13M, Mysuru-Kanakapura-Bangalore Road
Mellahalli, Mysuru-570028

B. IA INVIGILATOR ALLOTMENT

ATME College of Engineering — DEPARTMENT OF CIVIL ENGINEERING

Invigilation schedule for Internal Assessment -1 for AY 2019-20 Odd semester

Date	Room No	Forenoon Session: 9.30am to 11am	Signature	Afternoon Session: 9.30am to 11am	Signature
12/09/2019	CV106	Mr. Shashank P		Mr. Mandeep G	
	CV107	Mr. Srivathsa H U		Mr. Shashank P	
	CV207	Mrs. Jyothi D N		Mrs. Shruthi H G	
13/09/2019	CV106	Mr. Mandeep G		Mrs. Shruthi H G	
	CV107	Mr. Rudresh A N		Mr. Srivathsa H U	
	CV207	Mr. Shashank P		------	
14/09/2019	CV106	Mrs. Jyothi D N		Mr. Srivathsa H U	
	CV107	Mr. Shashank P		Mr. Rudresh A N	
	CV207	Mrs. Shruthi H G		Mr. Mandeep G	

Signature of Test Coordinator
Test Co-Ordinator
Department of Civil Engineering
ATME College of Engineering
Mysuru-570028

Signature of HOD
HOD
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C. STUDENT ATTENDANCE SHEET

ATME College of Engineering
Department of Civil Engineering
First Internal Assessment-2019-20 ODD
Third Semester - B Form
Room Number - C-106

Sl. No	USN	Name of the Student	18MAT31	18CV32	18CV33	18CV34	18CV35	18CV36
1	4AD17CV002	AKASH H H						
2	4AD17CV010	DHANUSH KUMAR J		AB	AB			Absent
3	4AD17CV013	GURU PRASAD H S						
4	4AD17CV021	NANDEESH S						
5	4AD17CV039	VINOD G A						
6	4AD17CV045	SANJAY S						
7	4AD18CV002	AMITH N S						
8	4AD18CV003	AMRUTHA M						
9	4AD18CV004	BHOOMIKA C G						
10	4AD18CV006	CHETHAN N						
11	4AD18CV007	DAYANAND V						
12	4AD18CV008	DEEPAK K N						
13	4AD18CV009	DILIP P						
14	4AD18CV010	GAGAN GOWDA M						
Total Number of Students Present			-14-	-13-	13	-14-	13	-13-
Number of Absentees			-Nil-	-01-	01	-Nil-	01	-01-
Signature of the Faculty with Date			12/9/19	13/09/19	14/9/19	12/9/19		13/9/19

Signature of Test Coordinator
Test Co-Ordinator
Department of Civil Engineering
ATME College of Engineering
Mysuru-570028

Signature of HOD

ATME College of Engineering
Department of Civil Engineering
First Internal Assessment-2019-20 ODD
Third Semester - B Form
Room Number - C-107

Sl. No	USN	Name of the Student	18MAT31	18CV32	18CV33	18CV34	18CV35	18CV36
1	4AD18CV012	HARSHITHA A M						
2	4AD18CV013	JABEER KHAN			AB		AB	
3	4AD18CV014	KIRAN R						
4	4AD18CV015	KIRANA M G						
5	4AD18CV016	M K NAYANA						
6	4AD18CV017	MANJUNATH N						
7	4AD18CV019	MOHAMMED ADNAN						
8	4AD18CV020	MD ANSAR BAIG						
9	4AD18CV021	MOHAMMED HAAMID						
10	4AD18CV022	MD TAUSEEQ KHALEEL						
11	4AD18CV023	NANDAN D V						
12	4AD18CV024	NANDINI G						
13	4AD18CV026	NISARGA P						
14	4AD18CV027	NISCHITH R						
Total Number of Students Present			14	14	-13-	14	12	14
Number of Absentees			-Nil-	—	-01-	-NIL-	01	-Nil-
Signature of the Faculty with Date				12/9	14/9/19	12/9/19	14/9	

Signature of Test Coordinator
Test Co-Ordinator
Department of Civil Engineering
ATME College of Engineering
Mysuru-570028

Signature of HOD
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ATME COLLEGE OF ENGINEERING
MYSORE-570028

DEPARTMENT OF CIVIL ENGINEERING

ATME College of Engineering
Department of Civil Engineering
First Internal Assessment-2019-20 ODD
Third Semester - B Form
Room Number - C-207

Sl. No	USN	Name of the Student	18MAT31	18CV32	18CV33	18CV34	18CV35	18CV36
1	4AD18CV028	NISHCHITH GOWDA K N	Nil	Nil	Nil	Nil	Nil	Nil
2	4AD18CV029	NITHIN B S	Nithin. B.S	Nithin. B.S	Nithin. B.S	Nithin. B.S	Nithin. B.S	Nithin. B.S
3	4AD18CV030	POSHITHA S V	Poshitha S.V.	Poshitha S.V.	Poshitha S.V.	Poshitha S.V.	Poshitha S.V.	Poshitha S.V.
4	4AD18CV031	PRAKRUTHI S	Prakruthi	Prakruthi	Prakruthi	Prakruthi	Prakruthi	Prakruthi
5	4AD18CV032	PRUTHVI R	Pruthvi R	Pruthvi R	Pruthvi R	Pruthvi R	Pruthvi R	Pruthvi R
6	4AD18CV034	ROHAN GOWDA S	Rohan Gowda	Rohan Gowda	Rohan Gowda	Rohan Gowda	Rohan Gowda	Rohan Gowda
7	4AD18CV035	S N VINAYAKA DARSHAN	Nil	Nil	Nil	Nil	Nil	Nil
8	4AD18CV036	SADDAM HUSSAIN Z A	Saddam ZA	Saddam ZA	Saddam ZA	Saddam ZA	Saddam ZA	Saddam ZA
9	4AD18CV037	SAGAR S	Sagar S	Sagar S	Sagar S	Sagar S	Sagar S	Sagar S
10	4AD18CV038	SANJAYKUMAR S	Sanjaykumar S	Sanjaykumar S	Sanjaykumar S	Sanjaykumar S	Sanjaykumar S	Sanjaykumar S
11	4AD18CV039	SHASHANK K BYADGI	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank
12	4AD18CV040	SHASHANK S NAGARKAR	RP	RP	RP	RP	RP	RP
13	4AD18CV045	SYED MOHAMMED IMAD	Syed Imad	Syed Imad	Syed Imad	Syed Imad	Syed Imad	Syed Imad
14	4AD18CV046	TANZIL AHMED						
15	4AD18CV047	TEJASHWINI M	Tejashwini M	Tejashwini M	Tejashwini M	Tejashwini M	Tejashwini M	Tejashwini M
16	4AD18CV048	VARUN P	Varun P	Varun P	Varun P	Varun P	Varun P	Varun P
17	4AD18CV049	YASHAS J A	Yashas JA	Yashas JA	Yashas JA	Yashas JA	Yashas JA	Yashas JA
18	4AD18CV050	YOGESH V S	Yogesh. V.S	Yogesh. V.S	Yogesh. V.S	Yogesh. V.S	Yogesh. V.S	Yogesh. V.S
Total Number of Students Present			18	18	18	18	18	18
Number of Absentees			NIL	NIL	NIL	NIL	NIL	NIL
Signature of the Faculty with Date			13/9/19	13/9/19	14/9/19	13/9/19	13/9/19	

Signature of Test Coordinator
Test Co-Ordinator
Department of Civil Engineering
ATME College of Engineering
Mysuru-570028

Signature of HOD
DEPARTMENT OF CIVIL ENGINEERING
ATME College of Engineering
MYSURU-570028

D. SAMPLE IA QP & SCHEME

B-Sec

ATME College of Engineering

Department of Civil Engineering

First Internal Assessment

Subject Code	:	18CV34	Time	:	9.30am to 11am
Subject	:	Building Materials & Construction	Date	:	21/10/2019
Semester	:	III	Max. Marks	:	50

	Part – A Answer Any Three Questions (Ten Marks Each)	COs	BT Level
1	Enlist the requirements and good preservatives and also explain the types of preservative which are applied for stone surfaces	1	L2
2	Name any five good qualities of brick and describe the tests conducted on bricks	1	L2
3	Explain the method of determining bearing capacity of soil by the method of Plate load test.	2	L2
4	a)Define Aggregates. b) How aggregates are classified based on their sizes? and c) Explain the importance of size, shape and texture of coarse aggregate	1	L2
	Part – B Answer Any Two Questions (Ten Marks Each)		
5	Describe the following with a neat sketch 1) Rubble masonry 2) Pile Foundation 3) Combined Footing 4) Ashlar masonry	2	L2
6	Enlist the methods of sub-soil exploration and explain any two in detail	2	L2
7	Name the tests conducted on fine aggregates and describe any two tests in detail	1	L2

CO-1	Select suitable materials for buildings and adopt suitable construction techniques.
CO-2	Decide suitable type of foundation based on soil parameters
CO-3	Supervise the construction of different building elements based on suitability
CO-4	Exhibit the knowledge of building finishes and form work requirements

Bloom's Taxonomy Level	
L1	Remembering
L2	Understanding
L3	Applying
L4	Analyzing
L5	Synthesizing
L6	Evaluating

ATME College of Engineering — Department of Civil Engineering

Subject Name: Building Materials & construction **Subject Code:** 18CV34
Faculty Name: Srivathsa.H.U **IA Number:** 1

CO1	Select suitable materials for building & adopt suitable const. technique
CO2	Decide suitable type of found^n based on soil parameters.
CO3	Supervise the const of different building elements based on suitability
CO4	Exhibit the knowledge of building elements-finishes & formwork requirements
CO5	
CO6	

Revised Bloom's Taxonomy Levels

L1: Remembering **L2:** Understanding **L3:** Applying **L4:** Analysing **L5:** Evaluating **L6:** Creating

No.	Solution	Marks Allotted	Mapped COs	B T level
1.	Requirements of good building stones are as follows :- a) Crushing strength should be greater than 100 N/mm^2 b) A good building stone should be durable c) Stones should be such that they can be easily carved moulded, cut as desired d) The coefficient of hardness should be greater than 14 e) percentage wear for a good building stone should be less than 3 %. → 5 X 1 = (5) Causes for deterioration of stones :- a) Because of alternative wetting & drying, stones wears out quickly b) Because of frost action, expansion in volume take place which leads to splitting c) Because of raise & fall in temperature, deterioration of stone may take place. d) Vegetative growth on stones accelerate decay e) Movement of moisture leads to deterioration. → 5X1 = (5)	10	1	L2

Signature of Faculty

Signature of the HOD

ATME College of Engineering — Department of Civil Engineering

No.	Solution	Marks Allotted	Mapped COs	B T level
8.	Manufacturing process of clay bricks a) Preparation of clay :- Include unsoiling, digging cleaning, weathering, tempering b) Moulding :- Include hand moulding & machine moulding c) Drying :- Include artificial burning, circulation of air, drying yard, period for drying & screens d) Burning :- Include burning of moulded dried bricks in order to impart hardness & strength → Explanation of $4 \times 2\frac{1}{2} = 10$	10	1	L2
3.	The maximum load per unit area the soil can resist is known as bearing capacity → defn → (1) a) Increasing the depth of foundation :- But this method is not economical b) Compacting soil :- Soil can be compacted by adopting vibratory rollers, Ramming, vibroflotation c) Drainage of soil :- Presence of water decreases SBC d) Sheet piles :- Introducing sheet piles increases BC e) Sand piles :- More adopted in sandy soils f) Grouting :- Grouts fill up the cracks, increases BC. g) Chemical Treatment :- Adopted in case of swamp buildings.	10	2	L2

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Signature of the HOD

ATME College of Engineering

Department of Civil Engineering

No.	Solution	Marks Allotted	Mapped COs	B T level
	h) Stone columns :- Used in throughout soft i) Use of geo-synthetics :- Geo-synthetics acts as reinforcing material in improving BC. → explanation 9×1 = (9)			
4.	Mortar is a mixture of cement, sand and water mixed in definite proportion. → defn → (1) Properties of good mortar a) It should be cheap c) It should be easily workable b) It should be durable d) It should develop strength → 4×1 = (4) Classification of mortar 1) Bulk density :- Includes Heavy & light weight mortars 2) Kind of binding material :- Include limecement, surkhi, gauged & gypsum mortars. 3) Nature of Application :- Include brick laying and plastering mortars 4) Special mortars :- Include fire resistant, light weight, packing, sound absorbing & X-ray shielding mortars. → Naming = (1) Explanation → 4×1 = (4)	10	1	L2
5.	Foundation is a substructure which transmits the load of superstructure to the soil evenly. → defn = (1) foundation < Shallow, Deep > → (1)	10	2	L2

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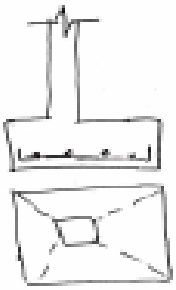
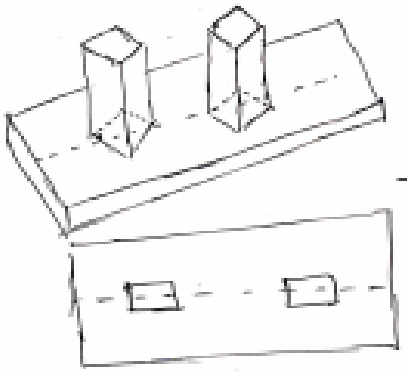
ATME College of Engineering — Department of Civil Engineering

No.	Solution	Marks Allotted	Mapped COs	B T level
	Isolated footing * It is simple & economical * Columns are not closely spaced * Loads on footing is low * SBC is generally high  **Combined footing** A spread footing which supports two or more columns is termed as combined footing It includes a) Rectangular b) Trapezoidal c) Combined column wall footing * It will be rectangular if loads are equal on column * If unequal loads on columns then trapezoidal shape is used.  → Rectangular combined footing Explanation 2 × 4 = (8)			
6.	**English Bond** * It consists of alternate course of headers & stretchers	10	1	L2

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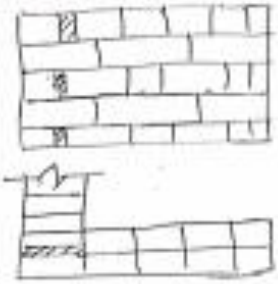
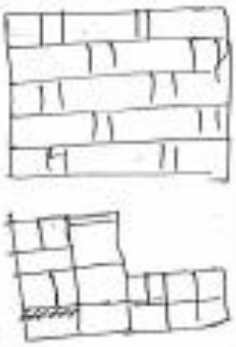
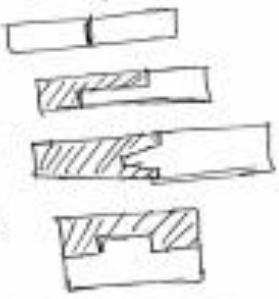
ATME College of Engineering — Department of Civil Engineering

No.	Solution	Marks Allotted	Mapped COs	B T level
	* There is no continuous vertical joint * Every alternate header comes over the joint b/w stretcher * The queen closer are not required in stretcher  Flemish Bond :- * In this type of bond, each course is comprised of alternate header & stretcher * Every alternate course starts with a header at the corner * Queen closers are placed next to the queen header in alternate courses * Every header is centrally supported over stretcher below  → 2 × 5 = (10)			
7.	Joints in stone masonry a) Butt joint b) Rebated joint c) Tongued joint d) Tabled joint 	10	1	L2

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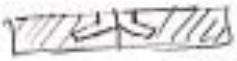
ATME College of Engineering — Department of Civil Engineering

No.	Solution	Marks Allotted	Mapped COs	B T level

e) Saddle joint :- 

f) Pultruded joint :- 

g) Hugged joint :- 

h) Doweled joint :- 

f) Cramped joint :- 

naming → (1) Explanation 9X1 = (9)

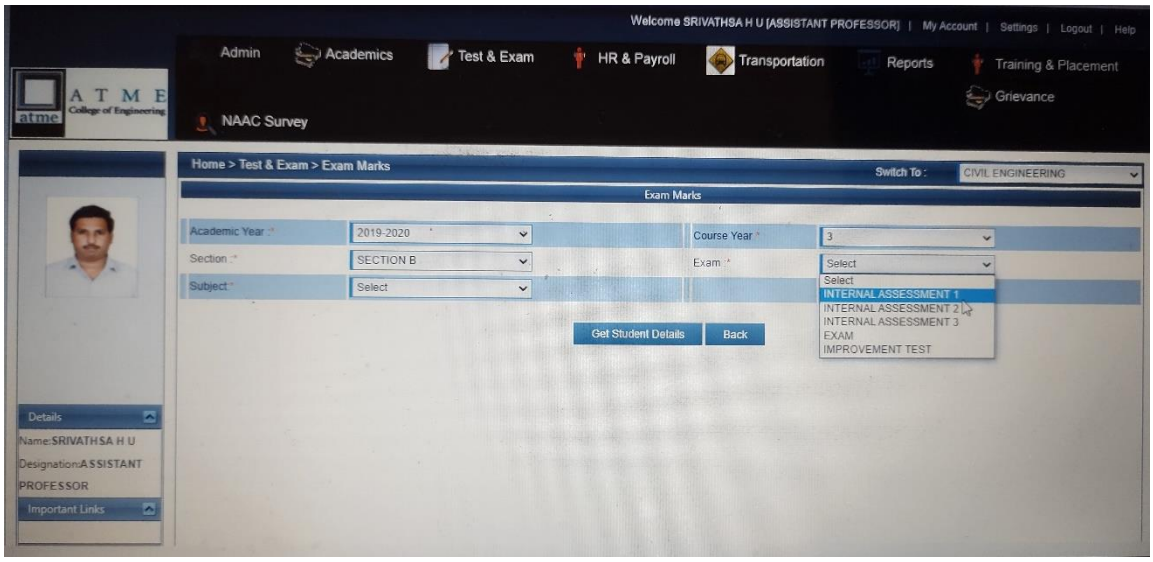
Signature of Faculty

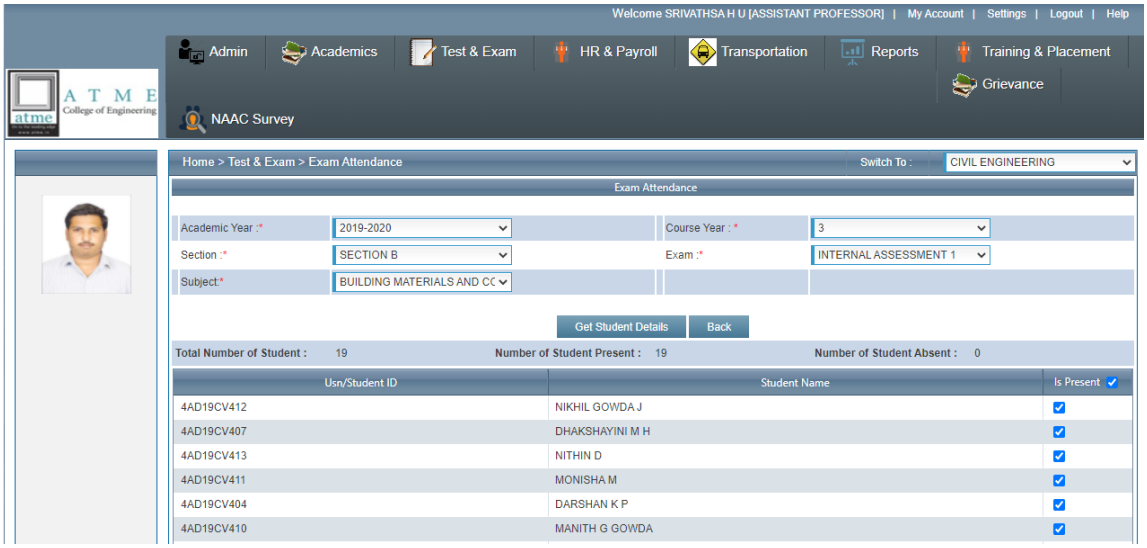
Signature of the HOD

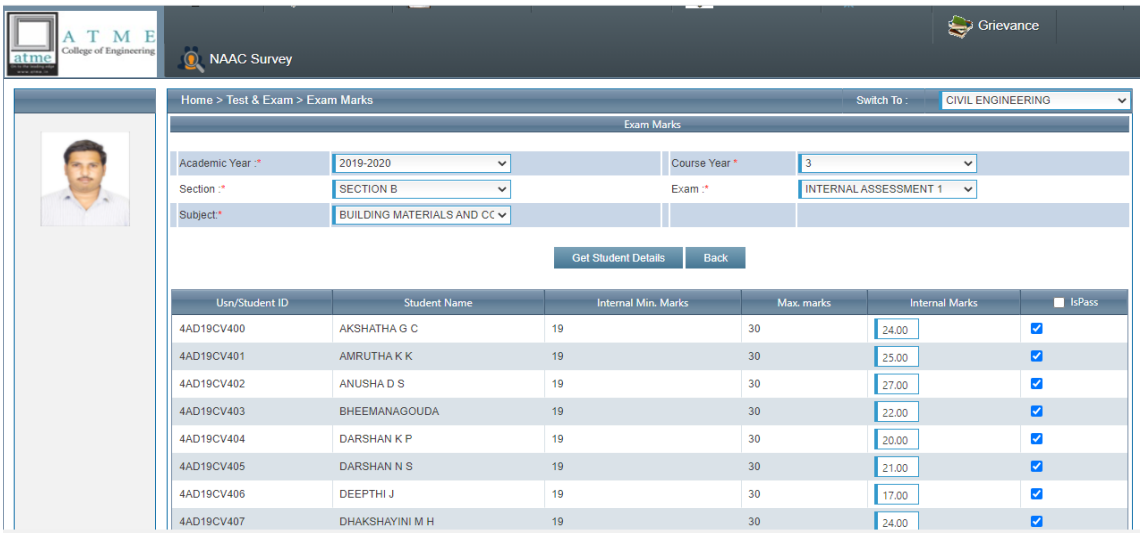
E. CERP Screenshots of Test Marks

Scheme of Valuation is discussed with students and blue books are distributed to students.

Test marks is uploaded in CERP Portal







ONLINE TEST PROCESS

DEPARTMENT OF CIVIL ENGINEERING

AY:2019-2020 [Even Semester]

During the pandemic steps was taken to keep the Test process robust are as follows

1. Test Schedule announcement to students through circular
2. Test paper was deployed using MS Team Form/ Channel created by faculty for each individual subjects
3. Students entered their Name, USN, Signature in every sheet and uploaded the Test script in the submission form provided.

DEPARTMENT OF CIVIL ENGINEERING

Online Test Process

A. Test Time table

ATME College of Engineering
Department of Civil Engineering
Second Internal Assessment
Time Table for 2019-20 (Even Semester)

	Date	26-May-2020	27-May-2020	28-May-2020	29-May-2020	30-May-2020	31-May-2020
	Timing	3 PM - 4:30 PM	3 PM - 4:30 PM	3 PM - 4:30 PM	3 PM - 4:30 PM	3 PM - 4:30 PM	3 PM - 4:30 PM
Semester	**8**		Pavement Design (15CV833)	Quantity Surveying and Contracts Management (15CV81)		Design of Pre Stressed Concrete Elements (15CV82)	
	6	Highway Engineering (17CV63)	Construction Management and Entrepreneurship (17CV61)	Design of Steel Structural Elements (17CV62)	Ground Improvement Techniques (17CV654)	Water Resource Management (17CV661)	Water Supply and Treatment Engineering (17CV64)
	4	Advanced Surveying (18CV45)	Analysis of Determinate Structures (18CV42)	Complex Analysis, Probability And Statistical Methods (18MAT41)	Water Supply & Treatment Engineering (18CV46)	Concrete Technology (18CV44)	Applied hydraulics (18CV43)
						Constitution of India, Professional Ethics and Cyber Law (18CPC49) (Timing: 9:00 AM to 10:00 AM)	

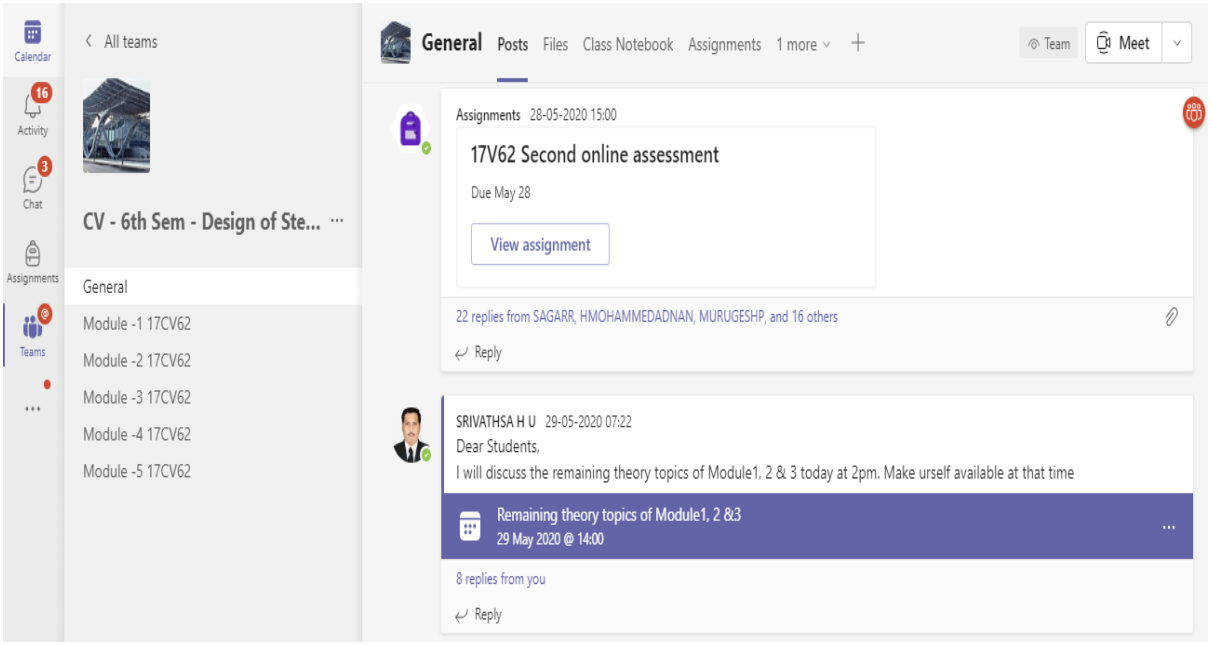
Test Co-ordinator

HOD
HOD
Department of Civil Engineering
ATME College of Engineering
Mysore-570 028

PRINCIPAL
PRINCIPAL
ATME College of Engineering
13th KM, Mysuru-Kanakapura-Bangalore Road
Mellahalli, Mysuru-570028

DEPARTMENT OF CIVIL ENGINEERING

B. Test Paper deployment and submission form in MS Teams



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Department of Civil Engineering
ATME College of Engineering
Mysuru-570028

Mechanism of internal assessment is transparent and robust in terms of frequency and mode

The Department conducts **three internal assessment tests** at approximately 6th, 12th and 14th week respectively. The faculties are informed on the test schedule, question paper review date and reviewers. The evaluation scheme and solutions during question paper review are to be present during the meeting with the reviewers.

The question paper, solutions and the evaluation scheme are reviewed and corrections are offered by the reviewers before the final approval by the Head and reviewers allotted to the respective courses. From AY: 2020-2021 Vertical Heads are assigned course QP review. Each test is intended to cover approximately one third of the syllabus. On completion of the Valuation, Scheme of valuation is discussed and Results are announced by Faculty members in their class session. The IA Test marks is uploaded in CERP portal

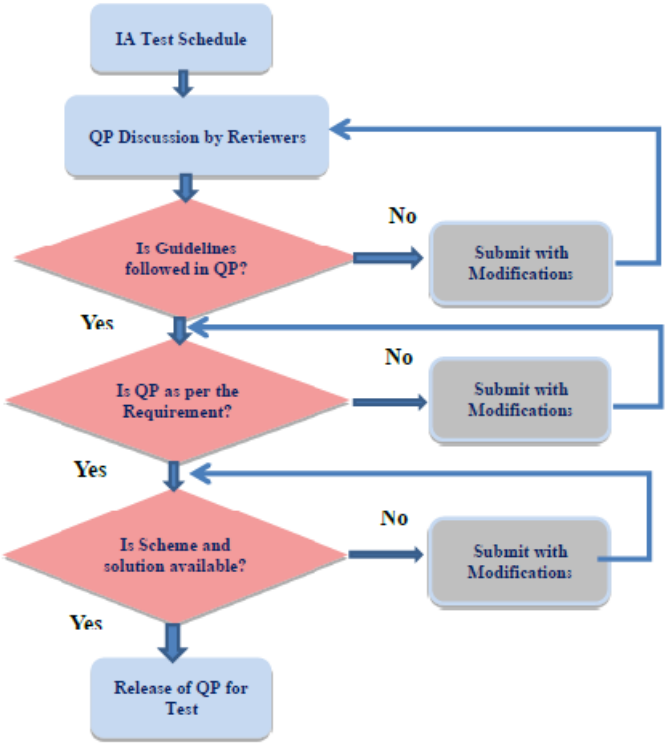

Fig:Test Process

HOD

HOD
Dept. of Computer Science & Engg.
ATME College of Engineering
Mysuru-570028

ACADEMIC CALENDER

ACADEMIC CALENDER AND ADHERENCE

ATME College of Engineering
Department of Computer Science & Engineering

Adherence to Academic Calender 2019 – 2020 (ODD SEM)

Month	Sl. No	Planned Date	Event/Activities	Executed Date	Remarks
August		01-08-2019	Induction Program for III and V sem Students	01-08-2019	EXECUTED
		08-08-2019	Induction Program for VII sem Students	08-08-2019	EXECUTED
		10-08-2019	Orientation program for First year students	10-08-2019	EXECUTED
		24-08-2019	Induction Program for First semester Students	24-08-2019	EXECUTED
September		06-09-2019	Workshop on Amazon web services and Cloud Computing for 7th Sem	--	Could not be executed due to unavailability of resource person
		12-9-2019 13-9-2019 14-9-2019	1st IA for 3,5,and 7 semester	12-9-2019 13-9-2019 14-9- 2019	EXECUTED
October		01-10-2019 03-10-2019 04-10-2019	1st IA for First semester	01-10-2019 03-10-2019 04-10-2019	EXECUTED
		05-10-2019	Workshop on Product Development for 5th & 7th Sem	--	Cancelled due to placement activity
		18-10-2019 21-10-2019 22-10-2019	2nd IA for 3,5,and 7 semester	18-10-2019 21-10-2019 22-10-2019	EXECUTED
		26-10-2019	First Phase Project Review for 7th Sem	26-10-2019	EXECUTED

Department of Computer Science and Engineering

		31-10-2019	Technical Talk on "Amazon Web Services" organized by CSI	31-10-2019	EXECUTED
November		06-11-2019 7-11-2019	Two day workshop on "Android App Development"	06-11-2019 7-11-2019	EXECUTED
		08-11-2019	Technical Talk-on Block Chain	--	Cancelled due to placement activity
		12-11-2019 13-11-2019 14-11-2019	2nd IA for First semester	12-11-2019 to 14-11-2019	EXECUTED
		22-11-2019 23-11-2019 25-11-2019	3rd IA for 3rd, 5th, 7th semester	22-11-2019 to 25-11-2019	EXECUTED
		27-11-2019 28-11-2019	Lab Internals for 3rd, 5th & 7th	27-11-2019 28-11-2019	EXECUTED

HOD

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Dept. of Computer Science & Engg
ATME College of Engineering
Mysuru-570028

SAMPLE TEST PROCESS: 2019-2020

Department of Computer Science and Engineering

IA TEST PROCESS

A. TIME TABLE

ATME College of Engineering

Department of Computer Science & Engineering
Time table for Improvement Test
ODD Semester(November - December) 2019

Sem	Date	9:00 to 10:30 AM Subject with Code	12 to 1:30 PM Subject with Code	3:00 to 4:30 PM Subject with Code
3rd	30.11.2019	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES(18MAT31)	DATA STRUCTURES AND APPLICATIONS(18CS32)	ANALOG AND DIGITAL ELECTRONICS(18CS33)
	02.12.2019	COMPUTER ORGANIZATION (18CS34)	SOFTWARE ENGINEERING(18CS35)	DISCREET MATHEMATICAL STRUCTURES (18CS36)
5th	30.11.2019	17CS51 MANAGEMENT AND ENTREPRENEURSHIP	17CS52 COMPUTER NETWORKS	17CS53 DATABASE MANAGEMENT SYSTEM
	02.12.2019	17CS54 AUTOMATA THEORY AND COMPUTABILITY	17CS553 ADVANCED JAVA AND J2EE	17CS564 .NET FRAMEWORK FOR APPLICATION DEVELOPMENT
7th	30.11.2019	PROGRAMMING THE WEB (15CS71)	ADVANCED COMPUTER ARCHITECTURES	MACHINE LEARNING (15CS73)
	02.12.2019	INFORMATION AND NETWORK SECURITY	STORAGE AREA NETWORKS (15CS754)	

Note:

* Students should attend all internal assessments compulsorily
* Students has to report in the examination hall before 10 mins of the comencement of the test.
* Students should be present in the examination hall for at least 1 hour after the test started.
* Students should wear ID card and Uniform Compulsorily.

Signature of Test co-ordinator

Signature of HOD

21/11/19.

Signature of Principal

Department of Computer Science and Engineering

B. IA TIME TABLE CIRCULAR_FACULTY MEMBERS

ATME COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Time table for Internal Assessment – III
ODD Semester (NOVEMBER) 2019-20

Sem	Date	Forenoon	Afternoon
		9:30 am to 11:00 am	2:00 pm to 4:30 pm
		Subject with Code	Subject with Code
3rd	20.11.2019 (3:30 To 4:30 PM)	CONSTITUTION OF INDIA , PROFESSIONAL ETHICS AND CYBER LAW (18CPC39)	-
	22.11.2019	ANALOG AND DIGITAL ELECTRONICS(18CS33)	COMPUTER ORGANIZATION (18CS34)
	23.11.2019	DATA STRUCTURES AND APPLICATIONS(18CS32)	SOFTWARE ENGINEERING(18CS35)
	25.11.2019	TRANSFORM CALCULUS, FOURIER SERIES AND NUMERICAL TECHNIQUES (18MAT31)	DISCREET MATHEMATICAL STRUCTURES (18CS36)
5th	22.11.2019	AUTOMATA THEORY AND COMPUTABILITY (17CS54)	DATABASE MANAGEMENT SYSTEM (17CS53)
	23.11.2019	COMPUTER NETWORKS(17CS52)	MANAGEMENT AND ENTREPRENEURSHIP (17CS51)
	25.11.2019	.NET FRAMEWORK FOR APPLICATION DEVELOPMENT (17CS564)	ADVANCED JAVA AND J2EE (17CS553)
7th	22.11.2019	STORAGE AREA NETWORKS (15CS754)	INFORMATION AND NETWORK SECURITY (15CS743)
	23.11.2019	ADVANCED COMPUTER ARCHITECTURES (15CS72)	PROGRAMMING THE WEB (15CS71)
	25.11.2019	MACHINE LEARNING (15CS73)	

Note:
* Students should attend all internal assessments compulsorly
* Students has to report in the examination hall before 10 mins of the comencement of the test.
* Students should be present in the examination hall for at least 1 hour after the test started.
* Students should wear ID card and Uniform Compulsorily.

Signature of Test co-ordinator **Signature of HOD** **Signature of Principal**

C. IA INVIGILATION ALLOTMENT

ATME College of Engineering

Department of Computer Science & Engineering
Invigilation Duty - Internal Assessment III
ODD SEM NOVEMBER- 2019-20

Date / Staff	19/11/2019	22/11/2019		23/11/2019		25/11/2019		Staff Signature
	3.00 PM - 4.30 PM	9.30 AM - 11.00 AM	3.00 PM - 4.30 PM	9.30 AM - 11.00 AM	3.00 PM - 4.30 PM	9.30 AM - 11.00 AM	3.00 PM - 4.30 PM	
Dr. PutteGowda		DS Lab					001	
AnilKumar C J	001	002	006		003			
Nasreen Fathima	002	008		DS Lab				
Sunitha Patel M S	003		001				007	
Mohanesh B M				003	001		002	
Sowmya S / Peakuthi. S			008			008	003	
AnilKumar B H		001		001		DS Lab		
Impana Appaji		006		008		006		
Kiran B				006	008	002		
Sneha N P			002	002		001		
Sneha C R		003			007		DS lab	
Srinivasa G			003	007	DS Lab	003		
Raghuram A S		007	DS Lab		006		006	
Kavyashree E D			007		002	007	008	

Signature of Test co-ordinator

Signature of HOD

D. STUDENT ATTENDANCE SHEET

ATME College of Engineering

Department of Computer Science & Engineering
Attendance List - Internal Assessment - II
ODD SEM - OCTOBER 2019

Sem :7 "A"

Room No. 003

Sl.no.	USN	Names	21/10/2019 Forenoon 15CS743	21/10/2019 Afternoon 15CS73	22/10/2019 Forenoon 15CS72	22/10/2019 Afternoon 15CS71	23-10-2019 Forenoon 15CS754	
1	4AD16CS037	MANU G		← AB →	AB	← AB →	AB	
2	4AD16CS038	MEGHANA K M	AB	Meghana	Meghana	Meghana	Meghana	
3	4AD16CS039	MOHAMED NAUMAAN		← AB →	AB	AB	Naumaan	
4	4AD16CS041	MONICA M V	Monica M.V	Monica M.V	AB	Monica M.V	Monica M.V.	
5	4AD16CS042	MONIKA A	Monika.A	Monika.A	Monika.A	Monika A	Monika.A	
6	4AD16CS043	MONIKA C S	Monika.CS	Monika.CS	Monika.C.S	Monika.CS	Monika.C.S	
7	4AD16CS044	MONIKA K M	~~Monika K M~~	~~Monika K M~~	AB	AB	Monika.K.M	
8	4AD16CS045	MONISHA J	← AB →	← AB →	Monisha.J	Monisha J	Monisha J	
9	4AD16CS046	MUNAZA SHAFEEQ	← AB →	← AB →	AB	AB	M. Shafeeq	
10	4AD16CS047	NAVEEN KUMAR N	← AB →	← AB →	AB	AB	AB	
11	4AD16CS048	NIRANJAN GOWDA M S	AB	AB	AB	AB	AB	
12	4AD16CS050	NITHYASHREE N	Nithyashree	Nithyashree	Nithyashree	Nithyashree	AB	
13	4AD16CS051	NOOR US SABA	← AB →	← AB →	AB	AB	AB	
14	4AD16CS052	POOJA K	Pooja.k	Pooja.k	Pooja.k	Pooja.k	Pooja.k	
15	4AD16CS053	POOJA MANJUNATH	← AB →	← AB →	AB	AB	AB	
16	4AD16CS054	POOJA R	← AB →	← AB →	Pooja.R	Pooja.R	AB	
17	4AD16CS055	POORNASHREE D	Poornashree	Poornashree	Poornashree	Poornashree	Poornashree	
	4AD16CS056	PRAJWAL P	Prajwal P	Prajwal P	Prajwal P	Prajwal P	AB	
No. of Absentees			10	08	~~06~~ 07	06	01	
Staff Signature								

4AD16CS040 - MOHAMMED NUMAAN — Md. Nmaan | Md. Nmaan | Md. Nmaan | Md. Nmaan | Md. Nmaan

4AD16CS402 Bindu Rakeshwar — AB | AB | AB | AB | Bindu

E. SAMPLE IA QP & SCHEME

ATME COLLEGE OF ENGINEERING

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

THIRD INTERNAL ASSESSMENT

SUB CODE	:	17CS651	TIME:01.30PM-2.45PM
SUBJECT	:	Data Mining and Data Warehousing	DATE: 22-07-2020
SEM	:	VI A & B	MAX. MARKS:30

Sl No.	Answer any three Questions (TEN MARKS EACH)	CO's	BLT
01.	Explain how decision tre induction algorithm works. Give example.	3	L2
	OR		
02.	List and explain the different characteristics of decision tree induction		L4
03.	What is cluster analysis? Expalin different types of clusterings.	3	L2
	OR		
04.	Explain briefly agglomerative hierarchical clustering with example.		
05.	Explain DBSCAN algorithm with example.	3	L2
	OR		
06.	Briefly explain BIRCH scalable clustering algorithm.		

CO1	Identify data mining problems and implement the data warehouse
CO2	Write association rules for a given data pattern.
CO3	Choose between classification and clustering solution.

Bloom's Taxonomy Level	
L1	Remembering
L2	Understanding
L3	Applying
L4	Analyzing
L5	Evaluating
L6	Creating

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SCHEME AND SOLUTION

TEST –III

Subject: Data Mining and Data Warehousing **Subject Code:** 17CS651

CO1	Identify data mining problems and implement the data warehouse
CO2	Write association rules for a given data pattern.
CO3	Choose between classification and clustering solution.

Bloom's Taxonomy Levels

L1: Remembering L2: Understanding L3: Applying L4: Analyzing L5: Evaluating L6: Creating

Question No	Solution	Marks	CO's	BLT
1.	**Decision Tree Induction Algorithm** **Hunt's Algorithm** In Hunt's Algorithm, a decision tree is grown in recursive fashion by partitioning the training records into successively purer subsets. Let D_t be the set of training records that are associated with node t and $y = \{y_1, y_2, y_3 .. y_c\}$ be the class labels. The following is a recursive definition of Hunt's algorithm **Step 1:** If all the records in D_t belong to the same class y_t, then t is a leaf node labeled as y_t. **Step 2:** If D_t contains records that belong to more than one class, an attribute test condition is selected to partition the records into smaller subsets. A child node is created for each outcome of the test condition and the records in	4m	3	L2

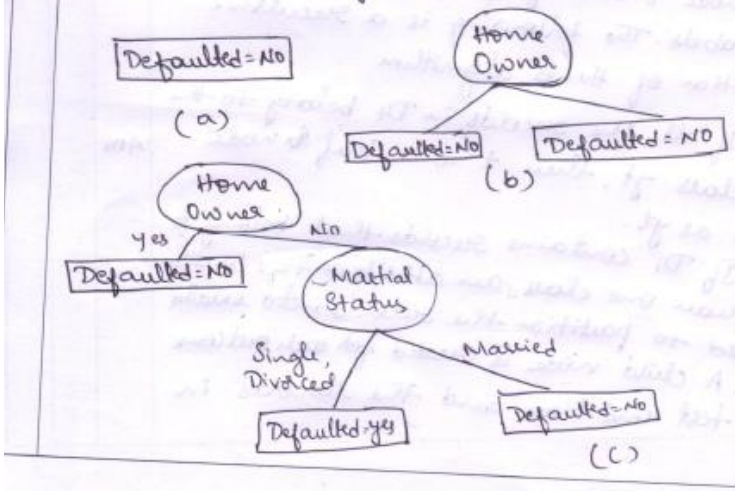
Question No	Solution	Marks	CO's	BLT

It are distributed to the children based on the outcomes. The algorithm is then recursively applied to each child node.

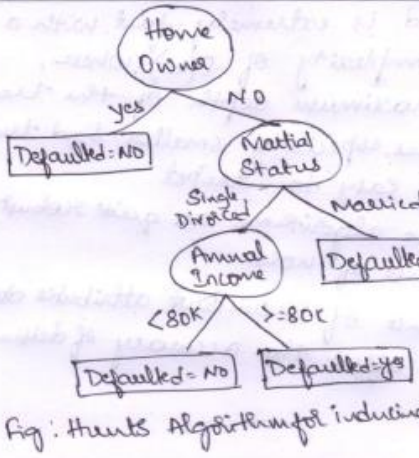
Example:

Tid	Home Owner	Marital Status	Annual Income	Defaulted Borrower
1	yes	Single	125K	NO
2	NO	Married	100K	NO
3	NO	Single	70K	NO
4	yes	Married	120K	NO
5	NO	Divorced	95K	yes
6	NO	Married	60K	NO
7	yes	Divorced	220K	NO
8	NO	Single	85K	yes
9	NO	Married	75K	NO
10	NO	Single	90K	yes

3m



Question No.	Solution	Marks	CO's	BLT



3m

10M

Fig: Hunts Algorithm for inducing decision tree.

2 Characteristics of Decision Tree Based Classification:

Advantages

4

(*) Decision tree induction is a nonparametric approach for building classification models. In other words, it does not require any prior assumptions regarding the type of probability distributions satisfied by the class and other attributes.

3

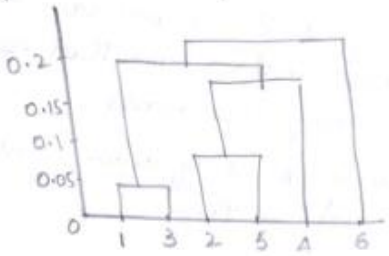
(*) Finding an optimal decision tree is a NP-complete problem

(*) Techniques developed for constructing decision trees are computationally inexpensive, making it possible to quickly construct models even when the training set size is very large. Once a decision tree has been built, classifying

5m

Question No	Solution	Marks	CO's	BLT
	a test record is extremely fast, with a worst-case complexity of $O(w)$, where, w is the maximum depth of the tree. (*) Decision trees, especially smaller-sized trees are relatively easy to interpet. (*) Decision tree algorithms are quite robust to the presence of noise. (*) The presence of redundant attributes does not adversely affect the accuracy of decision trees. Disadvantages (*) Since most decision tree algorithms employ a top-down, recursive partitioning approach, the number of records becomes smaller as we traverse down the tree. At the leaf node, the number of records may be too small to make a statistically significant decision about the class representation of the node (*) A subtree can be replicated multiple times in a decision tree. This makes the decision tree more complex than necessary and perhaps more difficult to interpret. Such a situation can arise from decision tree implementations that rely on a single attribute test condition at each internal node.	5m 10m		

Question No	Solution	Marks	CO's	BLT
3.	**Cluster Analysis** Finding groups of objects such that the objects in a group will be similar (or related) to one another and different from (or unrelated to) the objects in other groups. The greater the similarity within a group and the greater the difference between groups, the better or more distinct the clustering. Cluster analysis divides data into groups (clusters) that are meaningful, useful or both. Clusters are potential classes and cluster analysis is the study of techniques for automatically finding classes.	4m	3	L2
	Types of clustering A cluster is a set of clusters. Important distinction between hierarchical and partitional sets of clusters. Partitional Clustering: A division data objects into non-overlapping subsets (clusters) such that each data object is in exactly one subset Hierarchical Clustering: A set of nested clusters organized as a hierarchical tree.	6m		

Question No	Solution	Marks	CO's	BLT
	Types of Clusters			
	① Well-Separated clusters			
	② center-based clusters			
	③ contiguous clusters			
	④ Density-based clusters			
	⑤ Property or Conceptual.	10M		
	A) Agglomerative Hierarchical Clustering			
	① More popular hierarchical clustering technique			L2
	② Produces a set of nested clusters organized as a hierarchical tree			
	③ Can be visualized as a dendrogram		3	
	④ A tree like diagram that records the sequence of merges or splits			
	⑤ Do not have to assume any particular number of clusters.			
	⑥ Any desired number of clusters can be obtained by 'cutting' the dendogram at the proper level.	1M		
				

Question No	Solution	Marks	CO's	BLT

Basic Algorithm

Step 1 : Compute the proximity matrix, if necessary

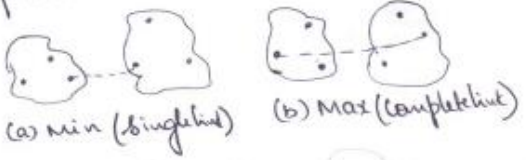
Step 2 : Repeat

& Merge the closest two clusters

Update the proximity matrix to reflect the proximity between the new cluster and the original clusters.

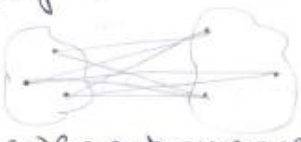
Step 3 : Until only one cluster remains

(*) The inter-cluster similarity or proximity of two clusters can be defined using the functions : Min, Max & group average.



(a) Min (single link) (b) Max (complete link)

4m



(c) Group average

Example : Sample data that consists of 6-two dimensional points are used. The x and y coordinates of the points & the Euclidean distances between them are shown.

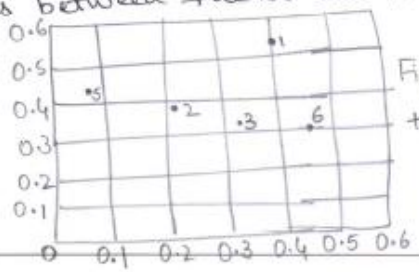


Fig : Set of 6 two-dimensional points

5m

Question No	Solution	Marks	CO's	BLT

Point	x Coordinate	y coordinate
P1	0.40	0.53
P2	0.22	0.38
P3	0.35	0.32
P4	0.26	0.19
P5	0.08	0.41
P6	0.45	0.30

Fig: xy coordinates of 6 points

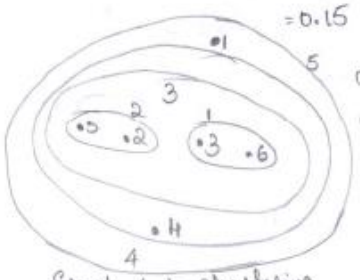
	P1	P2	P3	P4	P5	P6
P1	0.00	0.24	0.22	0.37	0.34	0.23
P2	0.24	0.00	0.15	0.20	0.14	0.25
P3	0.22	0.15	0.00	0.15	0.28	0.11
P4	0.37	0.20	0.15	0.00	0.29	0.22
P5	0.34	0.14	0.29	0.28	0.00	0.39
P6	0.23	0.25	0.11	0.22	0.39	0.00

(5) The distance between clusters {3,6} and {2,5} is given by

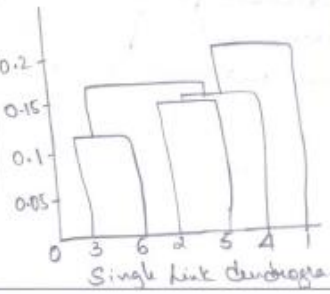
dist({3,6} {2,5}) = Min(dist(3,2), dist(6,2) dist(3,5), dist(6,5))

= Min(0.15, 0.25, 0.28, 0.39)

= 0.15



Single Link clustering



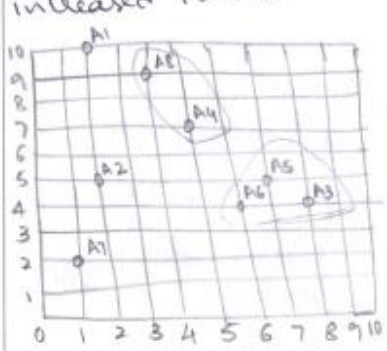
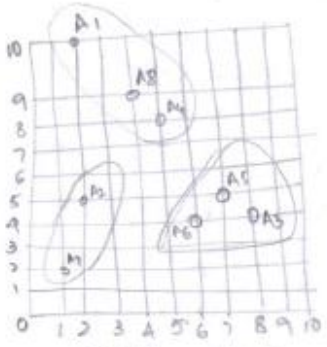
Single Link dendrogram

10M

Question No	Solution	Marks	CO's	BLT

5)	**DBSCAN Algorithm**
	(*) DBSCAN is a density-based algorithm
	(*) Density = number of points within a specified radius (Eps)
	(*) A point is a core point if it has more than a specified number of points within Eps.
	(*) These are points that are at the interior of a cluster
	(*) A border point has fewer than MinPts within Eps, but is in the ε neighborhood of a core point
	(*) A noise point is any point that is not a core point or a border point
	
	Algorithm
	current_cluster_label ← 1
	for all core points do
	if the core point has no cluster label then
	current_cluster_label ← current_cluster_label+1
	Label the current core point with cluster label current_cluster_label
	end if
	for all points in the Eps-neighborhood, except i'th the point itself do
	if the point does not have a cluster label then
	Label the point with cluster label current_cluster_label
	end if
	end for
	end for
		2M
		
		4M
			3	L2

(6)

Question No	Solution	Marks	CO's	BLT
	Strengths and weakness of DBSCAN (*) It is relatively Resistant to noise (*) It can handle clusters of different shapes and sizes. (*) Does not work well when the clusters having varying densities. (*) Does not work well with high-dimensional data. Example: If Epsilon is 2 and minpoint is 2, what are the clusters that DBSCAN would discover with the following 8 examples: A1=(2,10), A2=(2,5) A3=(8,4) A4=(5,8) A5=(7,5), A6=(6,4) A7=(1,2) A8=(4,9). ~~The distance~~ The fig illustrates the discovered clusters using 10 by 10 space ~~and illust~~ and Epsilon is increased to $\sqrt{10}$.  Epsilon = 2  Epsilon = $\sqrt{10}$	4M 10M		

Question No	Solution	Marks	CO's	BLT
6	**BIRCH Scalable clustering Algorithm**			22
	Balanced Iterative Reducing and Clustering using Hierarchies (BIRCH) is a highly efficient clustering technique for data in Euclidean Vector Spaces i.e., data for which averages make sense. BIRCH can efficiently cluster such data with one pass and can improve that clustering with additional passes.	3M	3	
	Algorithm:			
	1) Load the data into memory by creating a CF tree that summarizes the data.			
	2) Build a smaller CF tree if it is necessary for Phase3 T is increased, and then the leaf node entries (clusters) are reinserted. Since T has increased, some clusters will be merged.			
	3) Perform global clustering. Different forms of global clustering can be used. Because the clustering features store summary information that is important to certain kinds of clustering, the global clustering algo can be applied.	7M		
	4) Redistribute the data points using the centroids of clusters discovered in step3 and thus discover a new set of clusters. This overcomes certain problems that can occur in the first phase of BIRCH.			
		10M		

Signature of Faculty

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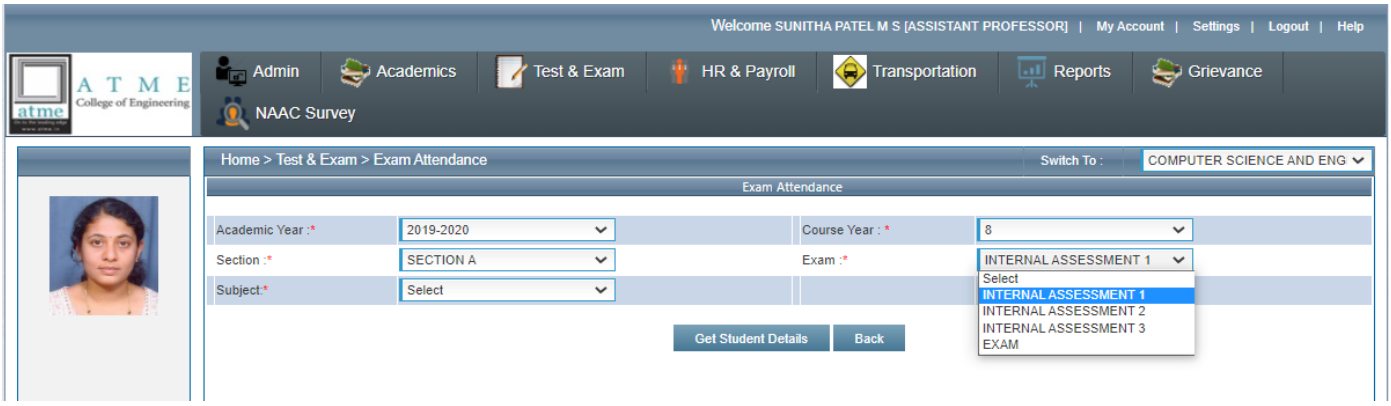
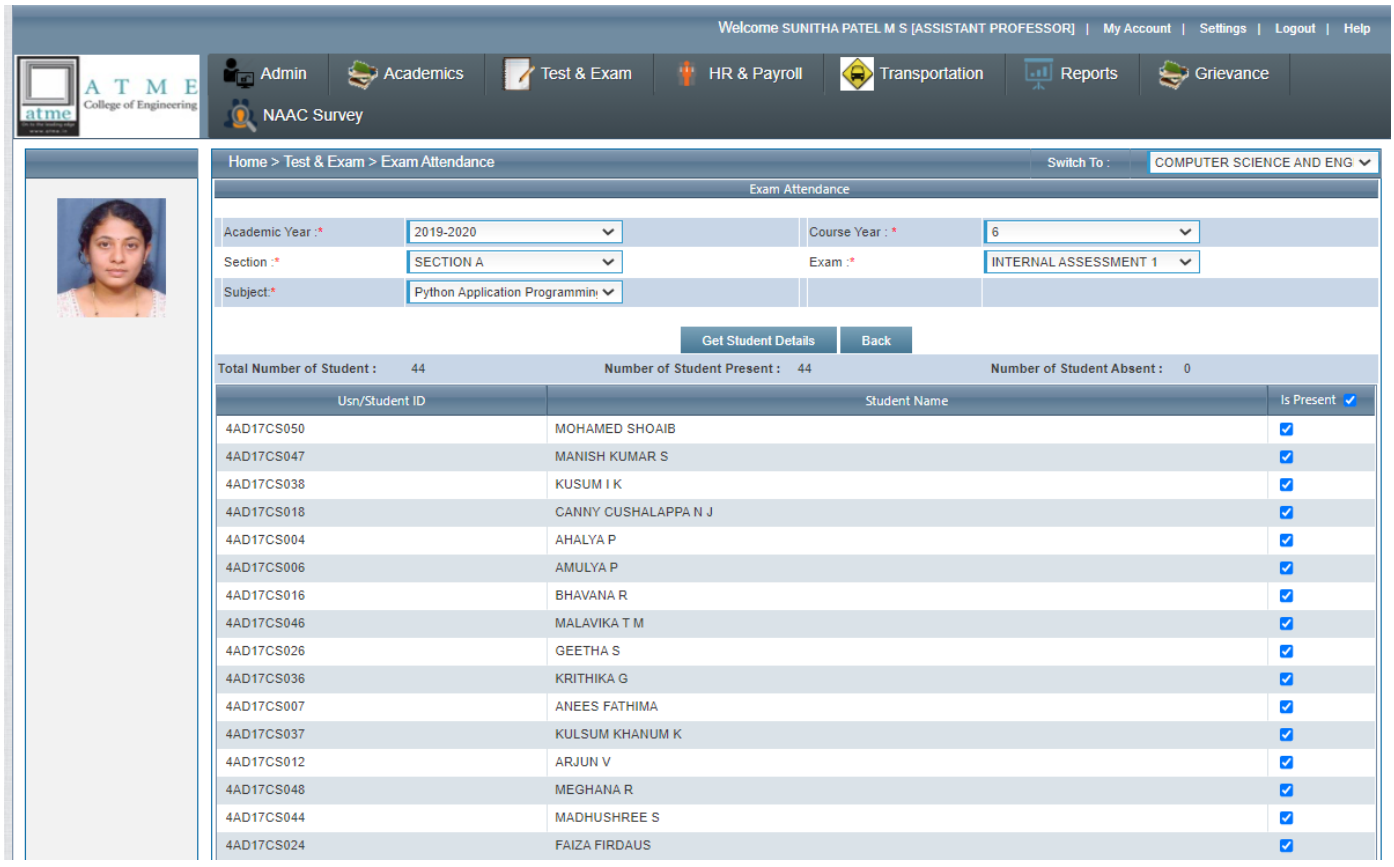
Dept. of Computer Science & Engg.

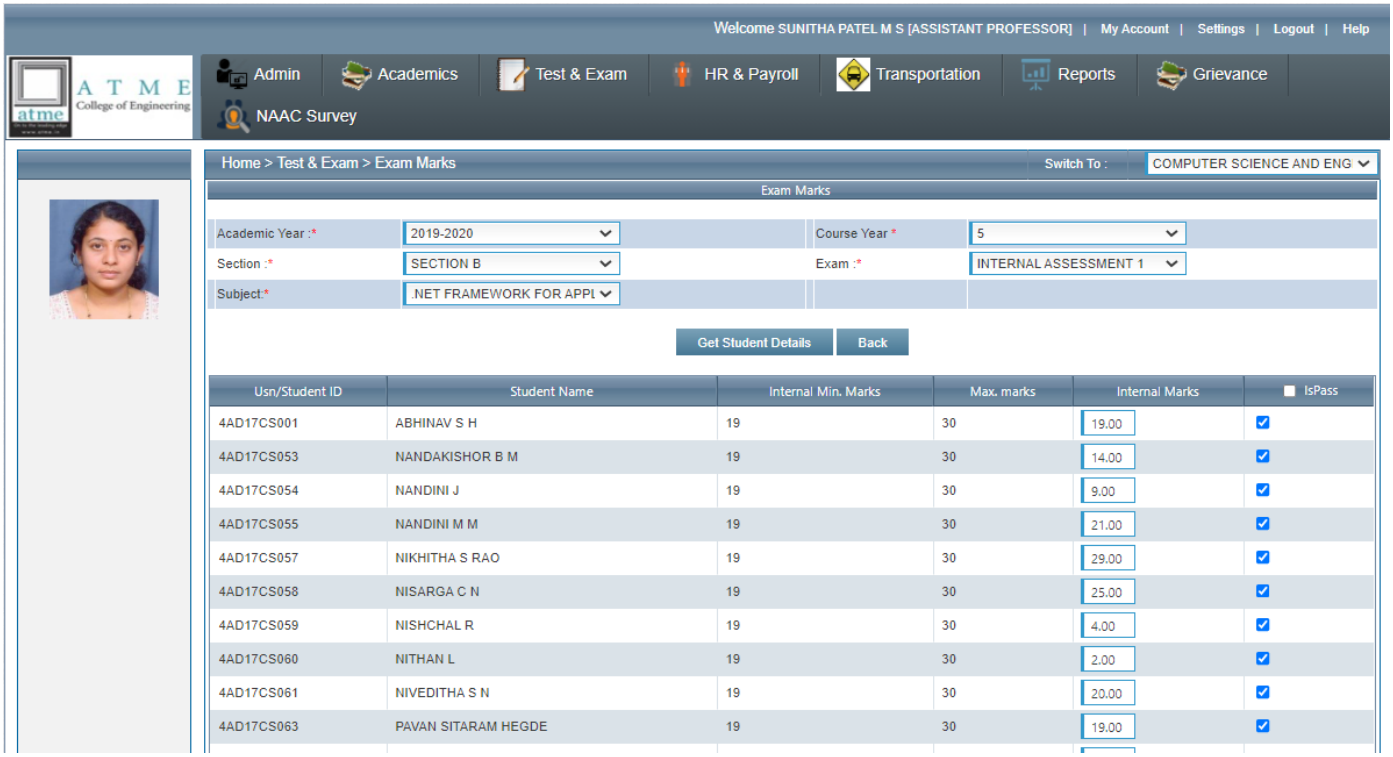
F. CERP SCREENSHOTS OF TEST MARKS

Scheme of Valuation is discussed with students and blue books are distributed to students.

Test marks is uploaded in CERP Portal







Usn/Student ID	Student Name	Internal Min. Marks	Max. marks	Internal Marks	IsPass
4AD17CS001	ABHINAV S H	19	30	19.00	☑
4AD17CS053	NANDAKISHOR B M	19	30	14.00	☑
4AD17CS054	NANDINI J	19	30	9.00	☑
4AD17CS055	NANDINI M M	19	30	21.00	☑
4AD17CS057	NIKHITHA S RAO	19	30	29.00	☑
4AD17CS058	NISARGA C N	19	30	25.00	☑
4AD17CS059	NISHCHAL R	19	30	4.00	☑
4AD17CS060	NITHAN L	19	30	2.00	☑
4AD17CS061	NIVEDITHA S N	19	30	20.00	☑
4AD17CS063	PAVAN SITARAM HEGDE	19	30	19.00	☑

ONLINE TEST PROCESS

Department of Computer Science and Engineering

AY: 2019-2020 [Even Semester]

During the pandemic special care was taken to keep the Test process robust. Invigilators were allotted who monitored the entire process of test conduction.

1. Test Schedule announcement to students through circular

2. Scrutiny of papers as previously followed.

3. Student Group allotment in the Microsoft Teams channel.

4. Invigilators allotment in MS Team Group

5. During the entire Test process, Students had to keep the camera.

6. Test paper was deployed using MS Team Form/ Channel.

7. Test process was video documented and monitored by Invigilator with the assistance of Test coordinator. Head of the Department monitored the process by visiting all the MS Teams channels. Instructors were allotted in every group to monitor techni

8. Students entered Name, USN, Signature in every sheet and uploaded the Test script in the submission form provided.

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Online Test Process

A. Test Time Table

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Department of Computer Science & Engineering
Time table for First Internal Assessment
EVEN Semester 2019-2020

	Timing : 9:45AM to 11:00AM						2:00 PM to 3:00PM
Sem	**11-May-2020**	**12-May-2020**	**13-May-2020**	**14-May-2020**	**15-May-2020**	**16-May-2020**	**16-May-2020**
3rd Subject with Code	ENGINEERING MATHEMATICS - IV (18MAT41)	DESIGN AND ANALYSIS OF ALGORITHMS (18CS42)	OPERATING SYSTEMS (18CS43)	MICROCONTROLLER AND EMBEDDED SYSTEMS (18CS44)	OBJECT ORIENTED CONCEPTS (18CS45)	DATA COMMUNICATION (18CS46)	Kannada (18KVK49)
5th Subject with Code	CRYPTOGRAPHY, NETWORK SECURITY AND CYBER LAW (17CS61)	COMPUTER GRAPHICS AND VISUALIZATION (17CS62)	SYSTEM SOFTWARE AND COMPILER DESIGN (17CS63)	OPERATING SYSTEMS (17CS64)	DATA MINING AND DATA WAREHOUSING (17CS651)	PYTHON APPLICATION PROGRAMMING (17CS664)	
7th Subject with Code	INTERNET OF THINGS AND APPLICATIONS (15CS81)	BIG DATA ANALYTICS (15CS82)	NETWORK MANAGEMENT (15CS833)				

Signature of Test co-ordinator

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B. Invigilators Allotment

ATME College of Engineering

Department of Computer Science and Engineering

Online IA-1 Invigilation Allotment

Sl. No.	Faculty Name with Designation	Student Name	Student USN	Semester/Section
1	M S Sunitha Patel	ABHISHEK R	4AD17CS002	7th / A
2		AHALYA P	4AD17CS004	7th / A
3		AKHILESH J A	4AD17CS005	7th / A
4		AMRUTHA A S	4AD18CS400	7th / A
5		AMULYA P	4AD17CS006	7th / A
6		ANEES FATHIMA	4AD17CS007	7th / A
7		ANIL KUMAR GADEDA GOUDAR G	4AD17CS008	7th / A
8		APOORVA R	4AD17CS011	7th / A
9		ARJUN V	4AD17CS012	7th / A
10		BHARATH J	4AD17CS014	7th / A
11		BHAVANA M	4AD17CS015	7th / A
12		BHAVANA R	4AD17CS016	7th / A
13		BHOOMIKA P	4AD17CS017	7th / A
14		CANNY CUSHALAPPA N J	4AD17CS018	7th / A
15		CHANDANA A S	4AD17CS019	7th / A
16		CHANDANA M	4AD17CS020	7th / A
17		DARSHINI R	4AD17CS021	7th / A
18		DEEPIKA K	4AD18CS401	7th / A
19		DIVYA H	4AD17CS022	7th / A
20		FAIZA FIRDAUS	4AD17CS024	7th / A
21		FARHAZ KHAN	4AD17CS025	7th / A
22		GEETHA S	4AD17CS026	7th / A
23		HARISH L K	4AD17CS028	7th / A
24		HARSHITHA M	4AD17CS029	7th / A
25		HARSHITHA M P	4AD17CS030	7th / A
26		HEMANTH B	4AD17CS031	7th / A
27		JANAVI K V	4AD17CS032	7th / A
28		JESMITHA M P	4AD17CS034	7th / A
29		KRITHIKA G	4AD17CS036	7th / A
30		KULSUM KHANUM K	4AD17CS037	7th / A
31		KUSUM I K	4AD17CS038	7th / A

32		LAVANYA S	4AD17CS039	7th / A
33		LIKITH V	4AD17CS040	7th / A
34		M S CHINNIDHI ARADHYA	4AD17CS041	7th / A
35		M S HRUTHVIC	4AD17CS042	7th / A

Sl. No.	Faculty Name with Designation	Student Name	Student USN	Semester/Section
1	Jyothi Patil M P	SAMURA MARIYAM K A	4AD17CS080	7th / B
2		SANJANA B L	4AD17CS081	7th / B
3		SHREYAS M L	4AD17CS083	7th / B
4		SHREYAS MAHENDRAKAR S	4AD17CS084	7th / B
5		SOWMYA M V	4AD17CS086	7th / B
6		SRIVATHSA S RAGHAVAN	4AD17CS087	7th / B
7		SUSHMA V	4AD17CS088	7th / B
8		SUSHMITHA C M	4AD17CS089	7th / B
9		SYED ABDUR RAHAMAN	4AD17CS090	7th / B
10		SYED ASIF	4AD17CS091	7th / B
11		T N SINCHAN MUTHAMMA	4AD17CS092	7th / B
12		TANIA FAREEN	4AD17CS093	7th / B
13		TAYYABA	4AD17CS094	7th / B
14		TEJAS M K	4AD17CS095	7th / B
15		TEJASWINI A G	4AD17CS096	7th / B
16		USHA M T	4AD16CS094	7th / B
17		VARSHITHA R	4AD17CS097	7th / B
18		VENKATARAJU N	4AD18CS404	7th / B
19		VINAYKUMAR Y D	4AD17CS098	7th / B
20		VISMAYA S P	4AD17CS099	7th / B
21		YASHASWINI H R	4AD17CS100	7th / B
22		YASHWANTH P S	4AD17CS101	7th / B
23		AFFAN ZAIDI B	4AD16CS003	7th / B
24		AKEEBULLA N	4AD17CS401	7th / B
25		ARUN NAYAR N	4AD17CS405	7th / B
26		DEEPTHI M	4AD16CS019	7th / B
27		NISARGA TERESA	4AD15CS051	7th / B
28		NISHANTH K	4AD16CS049	7th / B
29		RAKSHITH M S	4AD15CS063	7th / B
30		SALMAN MUSTAFA	4AD15CS072	7th / B

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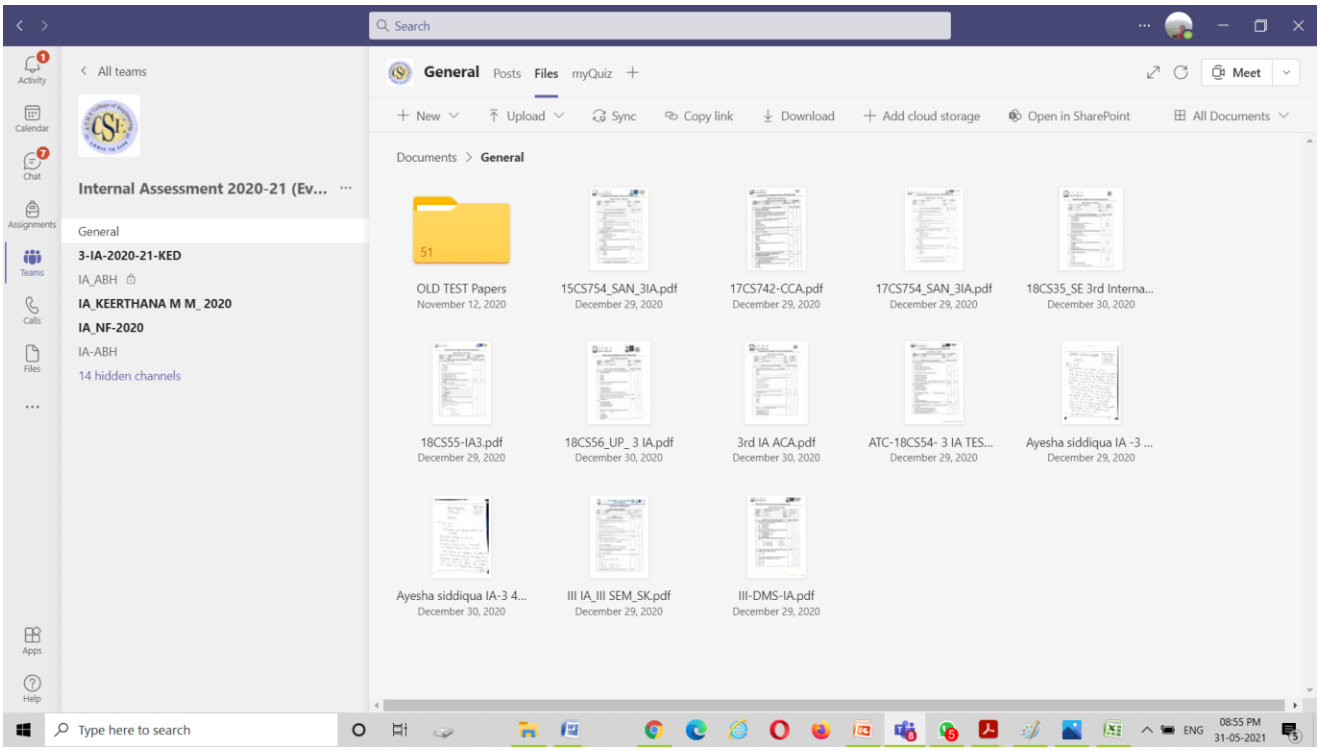
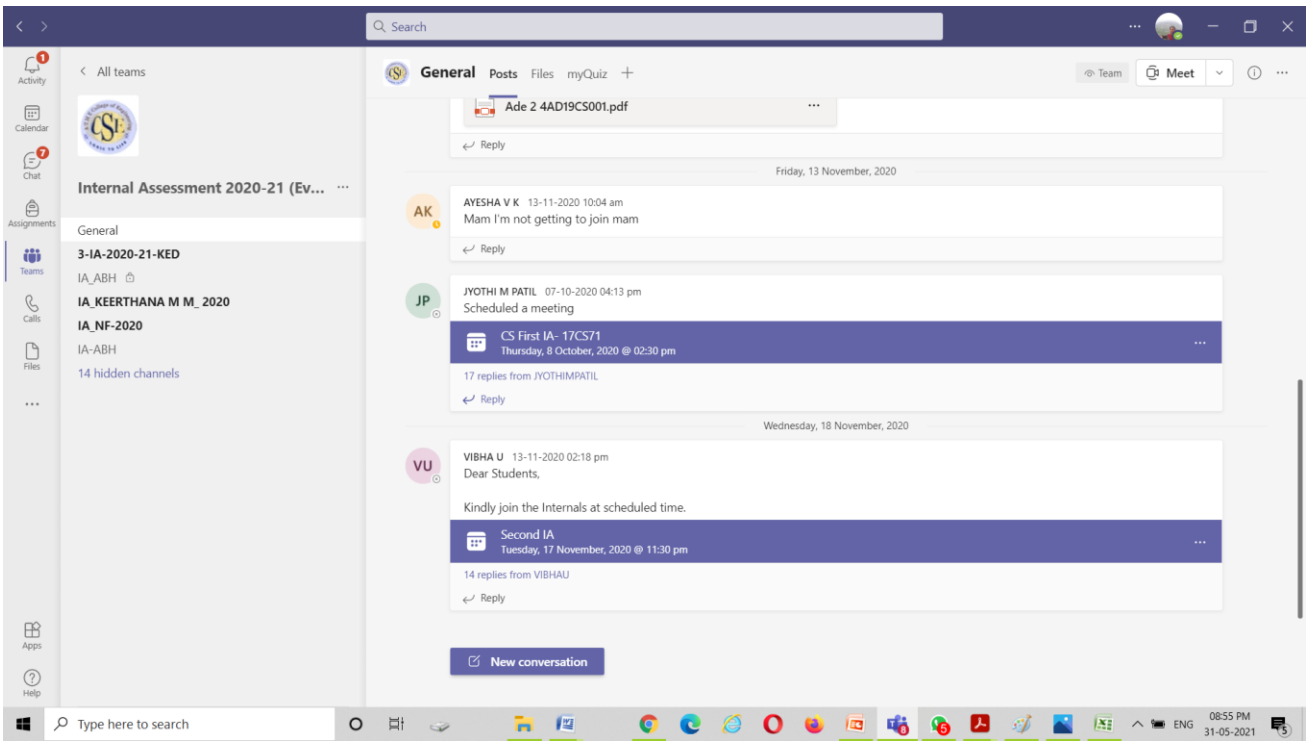
C. Test Paper deployment and submission form in MS Teams





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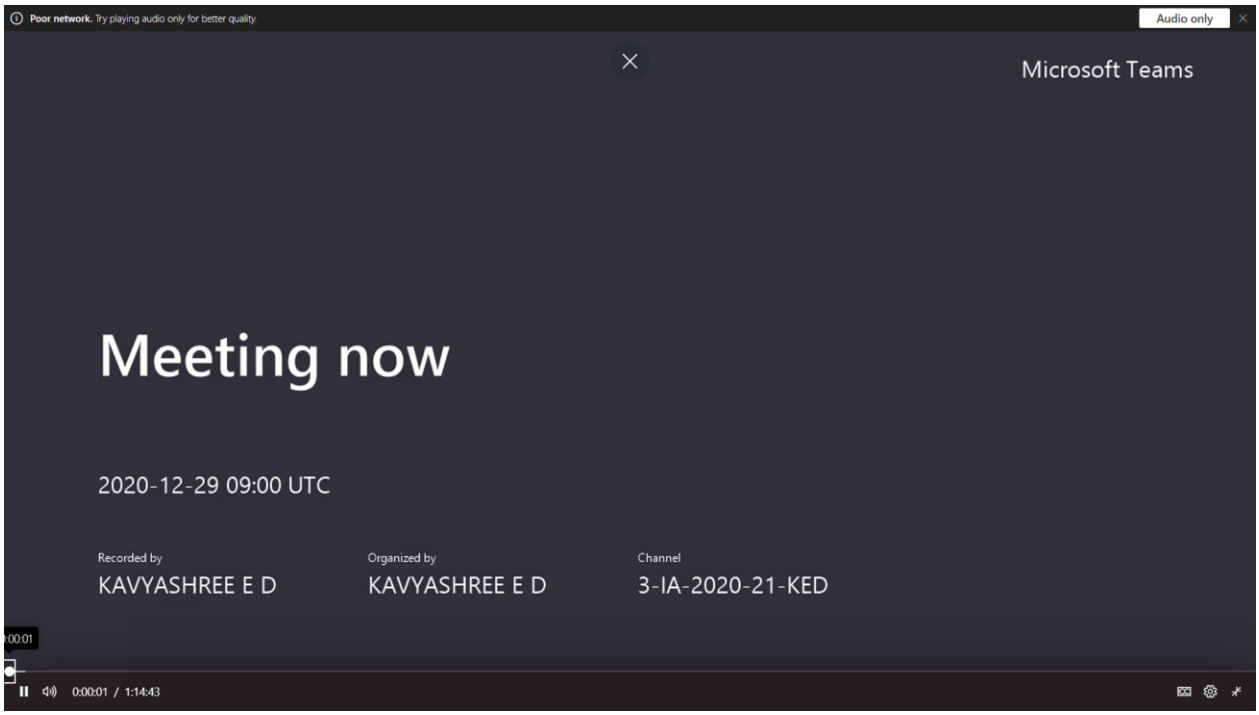
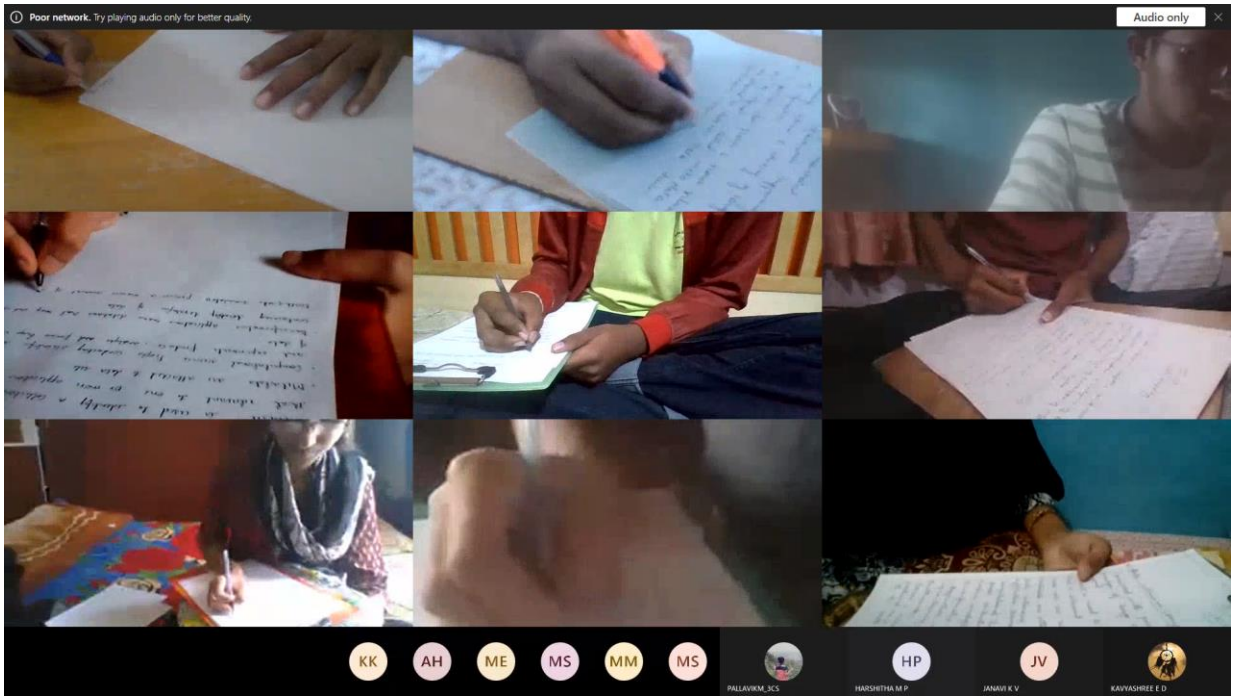
D. Test Recording Screenshots





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Mechanism of internal assessment is transparent and robust in terms of frequency and mode

The Department conducts **three internal assessment tests** at approximately 6th, 12th and 14th week respectively. The faculties are informed on the test schedule, question paper review date and reviewers. The evaluation scheme and solutions during question paper review are to be present during the meeting with the reviewers.

The question paper, solutions and the evaluation scheme are reviewed and corrections are offered by the reviewers before the final approval by the Head and reviewers allotted to the respective courses. From AY:2020-2021 Vertical Heads are assigned course QP review. Each test is intended to cover approximately one third of the syllabus. On completion of the Valuation, Scheme of valuation is discussed and Results are announced by Faculty members in their class session. The IA Test marks are uploaded in CERP portal.

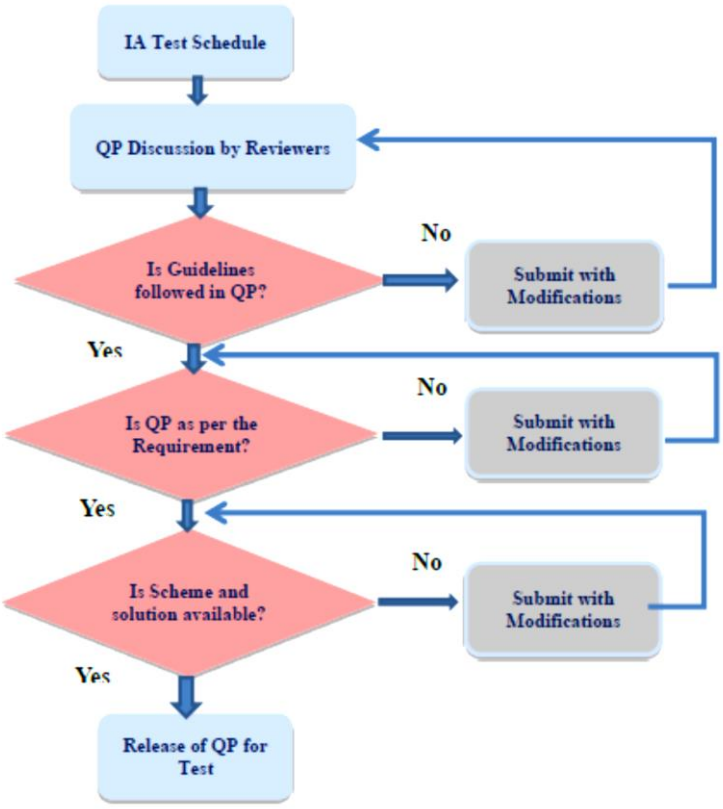


Fig: Test Process

ACADEMIC CALENDER

ACADEMIC CALENDER AND ADHERENCE

Sl No.	Name of the event	Date Planned	Date Conducted	Remarks
01	Commencement of ODD Sem III, V and VII	29-07-2019	29-07-2019	As planned
02	Induction Programme for I-year	09/08/2019 to 24/08/2019	09/08/2019 to 24/08/2019	As planned
03	Industrial visit	3rd Week	17/08/2019	As planned
04	Industrial visit	4th Week	24/08/2019	As planned
05	Commencement of I-Year classes	26-08-2019	26-08-2019	As planned
06	Industrial visit	4th Week	31/08/2019	Postponed due to permission from the industry
07	Attendance status update	03-09-2019	03-09-2019	As planned
08	First IA Test for 3rd, 5th and 7th sem	12-09-2019 to 14-09-2019	12-09-2019 to 14-09-2019	As Planned
09	Industrial Visit to GTTC, Mysuru,	8th Week	18/09/2019	As planned
10	Finalization of first IA marks	20/09/2019	20/09/2019	As planned
11	Teacher's Day & Engineer's day Celebration.	8th Week	25-09-2020	Postponed due to availability of guest
12	Parents-Teachers Meeting	25/09/2019	09/10/2019	Postponed due to Teacher's Day & Engineer's day Celebration.
13	Industrial Visit	9th Week	28-09-2020	As planned
14	Attendance status update	01/10/2019	01/10/2019	As planned
15	First IA test for 1st semester	3/10/2019 to 5/10/2019	3/10/2019 to 5/10/2019	As planned
16	Guest Lecturer	12th Week	15/10/2019	As planned
17	Second IA test for Higher semester (III,V&VII)	18/10/2019 to 22/10/2019	18/10/2019 to 22/10/2019	As planned
18	Finalization of second IA marks	25/10/2019	25/10/2019	As planned

19	Workshop	13th Week	26/10/2019	As planned
20	Attendance status update	4/11/2019	4/11/2019	As planned
21	World science day	11/11/2019	11/11/2019	As planned
22	Second IA test for 1st semester	12/11/2019 to 14/11/2019	12/11/2019 to 14/11/2019	As planned
23	Third IA test for Higher semester (III,V&VII)	22/11/2019 to 25/11/2019	22/11/2019 to 25/11/2019	As planned
24	Lab IA for higher semester (III,V&VII sem)	27/11/2019 to 29/11/2019	27/11/2019 to 29/11/2019	As planned
25	Last working day for higher semester	30/11/2019	30/11/2019	As planned
26	IA Marks Finalization	07-12-2019	07-12-2019	As planned
27	Science Fiesta	21th Week	20-12-2019	As planned

HOD

SAMPLE TEST PROCESS: 2019-2020

IA TEST II PROCESS

A. TIME TABLE

A T M E
College of Engineering

Department of Mechanical Engineering
Accredited by NBA 2019-20 to 2021-22

Date: 14/10/2019

Circular

All the Staff members of the Department are here by informed to prepare **Two sets** of question papers of their respective subjects for the **Second-Internal Assessment** and the same has to be submitted to HOD before **17-10-2019**. HOD will select one question paper and faculty has to prepare detailed scheme for the selected question paper after the test. Later question paper and detailed scheme are to be submitted to the test committee.

The following faculty members are identified as stream wise subject experts for the academic year **2019-20** to scrutinize the question papers to validate **CO mapping, blooms Taxonomy Level, syllabus and marks allotted.**

1) Design Stream Subjects : Mr.Suresh Kumar S
2) Thermal Stream Subjects : Mr.Ravikumar S
3) Manufacturing Subjects : Mr. Devaraj M R
4) Management : Mr. Niranjan Kumar V S

Odd Semester Subjects

Design Stream Subjects	Thermal Stream Subjects	Manufacturing Subjects	Management and Automation
18ME34 Mechanics of Materials	18ME33 Basic Thermodynamics	18ME34 Material Science	17ME51 Management and Engineering Economics
17ME52 Dynamics of Machinery	17ME562 Energy and Environment	18ME35A Metal Cutting & Forming	15ME753 Mechatronics
17ME54 Design of Machine Elements-I	17ME53 Turbo Machines	18ME35B Meta casting & Welding	
15ME73 Control Engineering	15ME71 Energy Engineering	18ME36B Mechanical Measurements & Metrology	
15ME742 Tribology	15ME72 Fluid Power Systems	17ME554 Non Traditional Machining	

Test coordinator 14/10

HOD

B. STUDENT ATTENDANCE SHEET:

ATME College of Engineering

Department of Mechanical Engineering

Room no-M-101

B-form- 5th Sem A

Date& Time			18/10/2019		21/10/2019		22/10/2019	
USN/Name			9.30AM to 11.00 AM	3.00 pm to 4.30 PM	9.30AM to 11.00 AM	3.00 pm to 4.30 PM	9.30AM to 11.00 AM	3.00 pm to 4.30 PM
			17ME52 Dynamics of Machinery	17ME562 Energy and Environment	17ME53 Turbo Machines	17ME554 Non Traditional Machining	17ME54 Design of Machine Elements-I	17ME51 Management and Engineering Economics
1	AD16ME012	Bhanuprakash P						
2	4AD17ME001	Abhilash S						
3	4AD17ME002	Adarsh Gowda M		AB				
4	4AD17ME005	Ajith Kumar R						
5	4AD17ME006	Akhilesh B						
6	4AD17ME009	Akshay R Bharadwaj		AB				
7	4AD17ME011	Amit Thulsidass		AB				
8	4AD17ME013	Arjun V		AB				
9	4AD17ME014	Chandan Kumar D M						
10	4AD17ME015	Chandan Y		AB				
11	4AD17ME016	Chayasiddesh K S						
12	4AD17ME017	Darshan R						
13	4AD17ME018	Deekshith Gowda C K		AB				
14	4AD17ME024	Jeevan P B		AB				
15	4AD17ME026	Kishore M		AB				
16	4AD17ME027	M B Karthik Aiyappa		AB				
17	4AD17ME028	Madhu K B		AB				
18	4AD17ME029	Mahadevaprasad N						
19	4AD17ME030	Mahadevaswamy H L						
20	4AD17ME031	Manjunath						
Number of Absentees			- Nil -	10	- Nil -	- Nil -	- Nil -	- Nil -
Number of Students Present			20	10	20	20	20	20
Signature of the faculty								

ATME College of Engineering

Department of Mechanical Engineering

Room no-M-102

B-form- 5th Sem A

	USN/Name		Date& Time	18/10/2019		21/10/2019		22/10/2019	
				9.30AM to 11.00 AM	3.00 pm to 4.30 PM	9.30AM to 11.00 AM	3.00 pm to 4.30 PM	9.30AM to 11.00 AM	3.00 pm to 4.30 PM
				17ME52 Dynamics of Machinery	17ME562 Energy and Environment	17ME53 Turbo Machines	17ME554 Non Traditional Machining	17ME54 Design of Machine Elements-I	17ME51 Management and Engineering Economics
1	4AD17ME032	Manoj Kumar N S							
2	4AD17ME034	Mohammed Afnan							
3	4AD17ME035	Mohammed Arbaz							
4	4AD17ME037	Mohammed Furkhan							
5	4AD17ME038	Mohammed Ibrahim							
6	4AD17ME039	Md Khasim Usaid							
7	4AD17ME041	Md Umar Farooq							
8	4AD17ME042	Md Usman Shariff							
9	4AD17ME043	Mohammed Zain							
10	4AD17ME044	Mohanganesh							
11	4AD17ME046	N Abhishek		N. Abhishek	N. Abhishek	N. Abhishek	N. Abhishek	N. Abhishek	N. Abhishek
12	4AD17ME071	Shreyas Y		Shreyas. Y.	Shreya. Y.	Shreyas. Y.	Shreyas. Y.	Shreyas. S.	Shreyas.
13	4AD18ME400	Abhijith							
14	4AD18ME402	Abhishek S							
15	4AD18ME404	Akashmohan							
16	4AD18ME405	Avinash B A		B.A	B.A	B.A	B.A	B.A	B.A
17	4AD18ME407	Chanakya S		Chanakya	Chanakya S	Chanakya S	Chanakya	Chanakya	Chanakya
18	4AD18ME408	Charan N A		Charan.NA	Charan.NA	Charan.NA	Charan.NA	Charan.NA	Charan.NA
19	4AD18ME410	Darshan P		Darshan	Darshan	Darshan	Darshan	Darshan	Darshan
20	4AD18ME411	Furhan Khan		AB	AB	AB	AB	AB	AB
	Number of Absentees			01	02	01	01	02	01
	Number of Students Present			19	18	19	19	18	19
	Signature of the faculty								

HOD

C. SAMPLE IA QP & SCHEME

ATME College of Engineering

Department of Mechanical Engineering

SECOND INTERNAL ASSESMENT

SUB CODE	:	17ME52	TIME: 9.30 AM-11.00 AM
SUBJECT	:	Dynamics of Machinery	DATE: 18-10-2019
SEM	:	5th Sem	MAX. MARKS:30

	PART-A Answer any two Questions (12 MARKS EACH)	CO's	Bloom's Taxonomy Level
01.	A four wheel trolley car of total mass 3000Kg. Each axle with its two wheels and gears has total Moment of inertia MI 32Kg-m^2. Each wheel is of 450mm radius. The centre distance between two wheels is 1.4m. Each axle is driven by a motor with speed ratio of 3:1.Each motor along with its gear has a moment of Inertia 16Kg-m^2 and rotaes in the opposite direction to that of axle.The center of mass of the car is 1m above the rails.**Determine** the limiting speed of the car when it has to travel around a curve of 250m radius with out the wheels leaving the rails.	3	L 5
02.	The rotor of the turbine of a ship has a mass of 2500kg and rotates at a speed of 3200rpm counter clockwise viewed from aft(rear). The rotor has radius of gyration of 0.4mt. Determine the gyroscopic couple and its effect when, i) steers to the left in a curve of 80mt radius at a speed of 15 knots ii) The ship pitches ± 5 degrees up and down with bow descending with time period 40 seconds. (1Knot=1860Mt/hr)	3	L 5
03	Add the SHM analytically and **Analyze** it by Graphically. $X_1 = 2 \cos(\omega t + 0.5)$ $X_2 = 5 \sin(\omega t + 1.0)$	4	L 4
	PART B-Answer any one Questions (6 MARKS)		
04	**Explain** the effect of gyroscopic couple on naval ship.	3	L 2
05	**List** and **Explain** Different Types of Vibrations.	4	L 2

CO 1	Determine the forces and couples for static and dynamic conditions of four bar and slider crank mechanisms to keep the system in equilibrium.
CO 2	Analyze static and Dynamic balancing for Rotating and Reciprocating masses.
CO 3	Determine equilibrium speed, sensitiveness, isochronism, effort and power of porter and hartnell governors. Also gyroscopic couple and effects related to 2, 4 wheeler, plane disc, ship and aero planes.
CO 4	Understand types of vibration,equation of motion and determine frequency and its behavior of Single degree Damped, Undamped and Forced Vibrations.

Bloom's Taxonomy Level	
L1	Remembering
L2	Understanding
L3	Applying
L4	Analyzing
L5	Synthesizing
L6	Evaluating

Approved
H.O.D.
Department of Mechanical Engineering
ATME College of Engineering, Mysuru

Scrutinized by
16/10/19

ATME College of Engineering — Department of Mechanical Engineering

II - Internal Assessment Scheme & Solution

Faculty Name: Suresh Kumar C & Sharva K Ram Date of I.A: 18/10/19

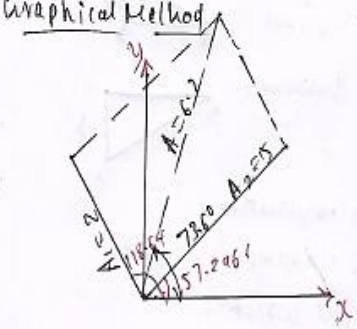
Subject with Code: Dynamics of Machinery Class: 5th A.E.R

Q. No	Scheme & Solution	Marks Allotted	CO/ RBT
01	$\frac{W}{4} = 7357.5N$ (2) $C_W = 4 I_W \omega_W \omega_P$ $= 0.5688 V^2$ (1) $C_E = C_W - C_E$ $C_E = 2 I_E \omega_E \omega_P$ $C_0 = \frac{mv^2 R}{h}$ $= 0.0948 V^2$ (1) $C = C_W - C_E = 0.474 V^2$ $\frac{P}{2} = \frac{C}{2x} = 0.1692 V^2$ (2) $\frac{Q}{2} = \frac{C_0}{2x} = 4.285 V^2$ (2) $P_I = \frac{W}{4} - \frac{P}{2} - \frac{Q}{2}$ $= 7357.5 - 0.1692 V^2 - 4.285 V^2$ $V = 40.64$ mt/sec. (2)	12	3 L5

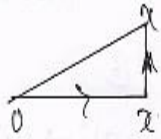
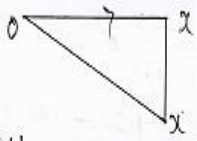
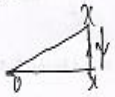
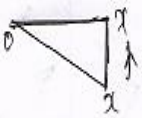
Department of Mechanical Engineering, ATMECE

Q. No	Scheme & Solution	Marks Allotted	CO. RBT
02	$V = 15$ knots $= 7.75$ Mt/sec. $\frac{15 \times 1860}{3600}$ Mt/hr (2) $h_S = I \omega \omega_P$ $\omega_n = \frac{2\pi N}{60} = 33.5$ (1) $= 12.98 \times 10^3$ N-M (4) $\omega_P = \frac{V}{R} = 0.09$ (1) Effect: Tends to dip the bow & Raise stern.	12	3 L5
	$h_P = I \omega \omega_{P max}$ $\omega_{P max} = \omega_1 \phi = \frac{2\pi}{t} \times \phi$ $= 1.837 \times 10^3$ N-M (4) $= 0.137$ Effect: Tends to move the ship toward portside / Left side.		
03	$X_1 = 2\cos(\omega t + 0.5)$ $X_2 = 5\sin(\omega t + 1.0)$ Analytical Solution $X = X_1 + X_2$ $A\sin(\omega t + \theta) = 2\cos(\omega t + 0.5) + \sin(\omega t + 1.0)$ $= 2[\cos\omega t \cos 0.5 - \sin\omega t \sin 0.5] +$ $5[\sin\omega t \cos 1.0 + \cos\omega t \sin 1.0]$	12	4 L4

Department of Mechanical Engineering, ATMECE

Q. No	Scheme & Solution	Marks Allotted	CO/ RBT
	$\sin\omega t\cos\theta + \cos\omega t\sin\theta = 5.9625\cos\omega t + 1.7427\sin\omega t$		
	$A\cos\theta = 1.7427$		
	$A\sin\theta = 5.9625$ (E)		
	$A^2\cos^2 + A^2\sin^2\theta = (1.7427)^2 + (5.9625)^2$		
	$A = 6.212$		
	$\tan\theta = \frac{5.9625}{1.7427}$ (E)		
	$\theta = 73.708^\circ = 1.2864$ radian.		
	Graphical Method  (E)		
4.	Steering :- Turning ship towards left or right Pitching :- Up & down movement of ship Rolling :- Spin axis & pressure axis parallel.	6	3 L2

Department of Mechanical Engineering, ATMECE

Q. No	Scheme & Solution	Marks Allotted	CO/ RBT
	Case 1 : Propellor Rotating cw direction viewed from astern & taking left turn  Raise the bow & depress the stern.		
	Case-2 : propeller Rotating cw direction viewed from stern & taking Right turn  Depress bow & Raise the stern.		
	Pitching :- Pitching upward  Pitching Downward 		
5.	Free & forced vibration Damped & undamped vibration Longitudinal vibration Transverse vibration Torsional vibration Deterministic & Random vibration	6	4 L1

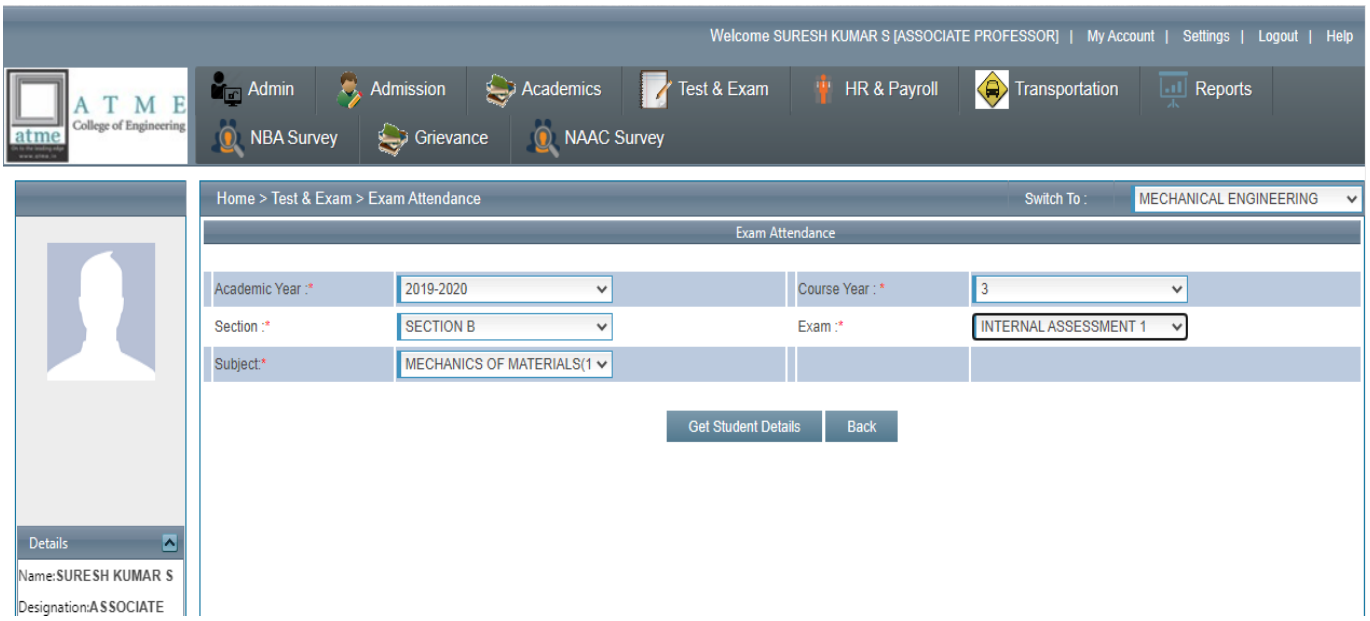
Department of Mechanical Engineering, ATMECE

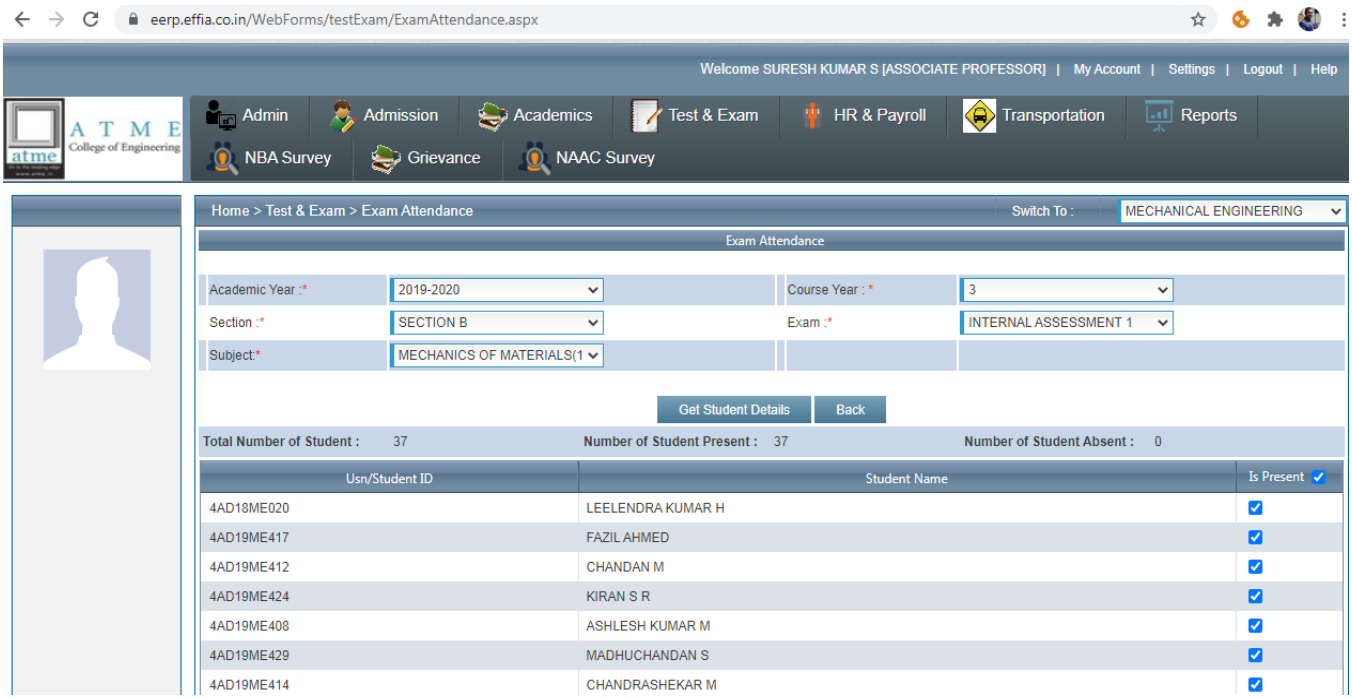
H.O.D.
Department of Mechanical Engg.

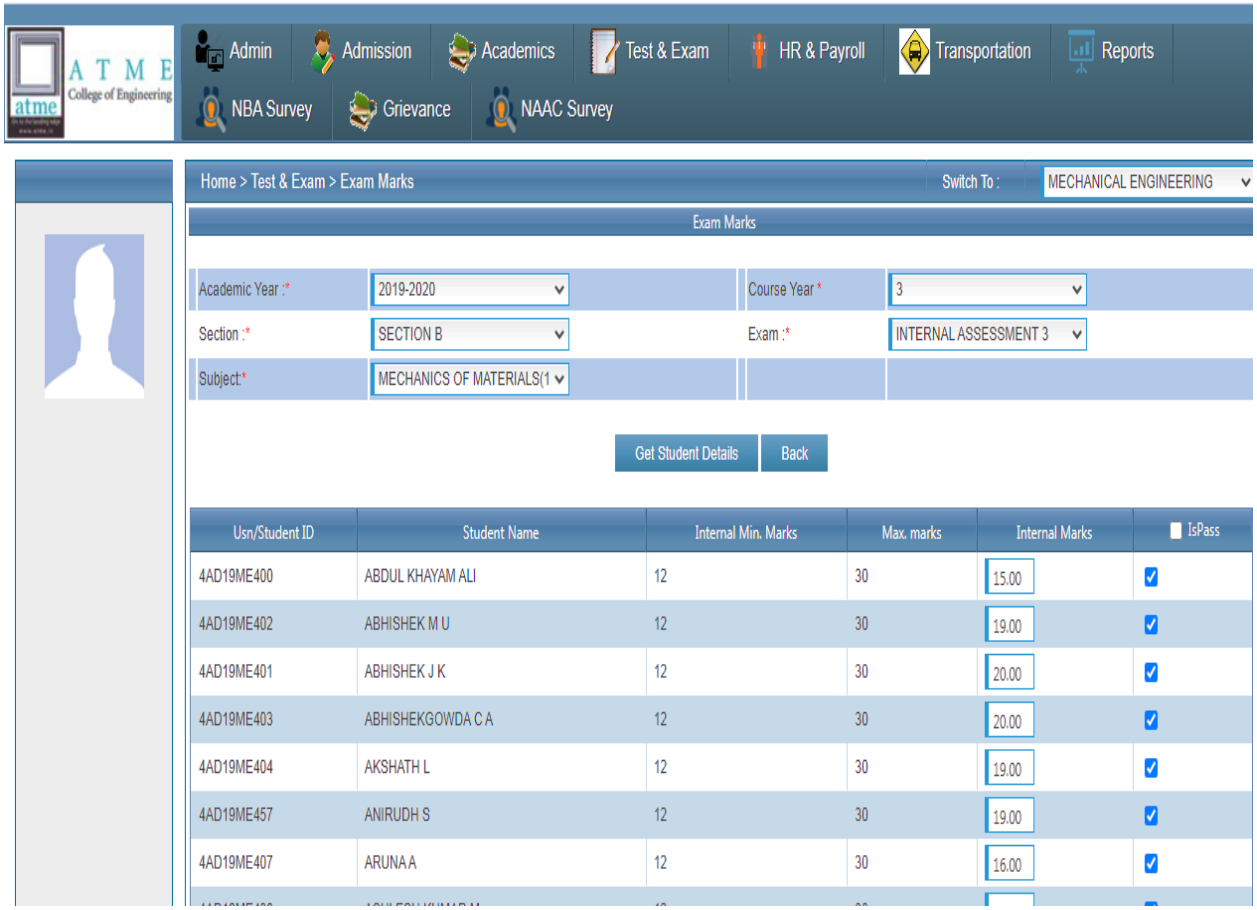
HOD

D.CERP Screenshots of Test Marks

After the test, Scheme of Valuation will be discussed with students and valued blue books are distributed to students. Test marks are uploaded in CERP Portal.






ATME College of Engineering
Admin
Admission
Academics
Test & Exam
HR & Payroll
Transportation
Reports
NBA Survey
Grievance
NAAC Survey
Home > Test & Exam > Exam Marks
Switch To :
MECHANICAL ENGINEERING
Exam Marks
Academic Year :*
2019-2020
Course Year *
3
Section :*
SECTION B
Exam :*
INTERNAL ASSESSMENT 3
Subject:*
MECHANICS OF MATERIALS(1
Get Student Details
Back
Usn/Student ID
Student Name
Internal Min. Marks
Max. marks
Internal Marks
IsPass
4AD19ME400 ABDUL KHAYAM ALI 12 30 15.00
4AD19ME402 ABHISHEK M U 12 30 19.00
4AD19ME401 ABHISHEK J K 12 30 20.00
4AD19ME403 ABHISHEKGOWDA C A 12 30 20.00
4AD19ME404 AKSHATH L 12 30 19.00
4AD19ME457 ANIRUDH S 12 30 19.00
4AD19ME407 ARUNA A 12 30 16.00

HOD

ONLINE TEST PROCESS

AY: 2019-2020 [Even Semester]

During the pandemic special care was taken to keep the Test process robust. Invigilators were allotted to monitor the entire process of test conduction.

1. Test Schedule was announced to students through circular

2. Scrutiny of papers was carried out as previously followed.

3. Student Group allotment was carried in the Microsoft Teams channel.

4. Invigilators allotment in MS Team Group

5. During the entire Test process, Students had to switch on their camera.

6. Test paper was deployed using MS Team Form/ Channel.

7. Test process video was documented and monitored by Invigilator with the assistance of Test coordinator. Head of the Department monitored the process by visiting all the MS Teams channels.

8. Students will enter their Name, USN, and Signature in every sheet and they will upload scanned copy of answer scripts to MS teams.

HOD

Online Test Process

A. Test Time Table

ATME College of Engineering

Department of Mechanical Engineering

2nd Internal Time Table for Academic year 2020-21 (Odd Semester)

Date& Time	12/11/2020		13/11/2020		17/11/2020	
Semester	10.00am to 11.30am	2.30pm to 4.00pm	10.00am to 11.30am	2.30pm to 4.00pm	10.00am to 11.30am	2.30pm to 4.00pm
3rd	18ME33 Basic Thermodynamics	18ME34 Material Science	18ME32 Mechanics of Materials	18ME35A Metal Cutting & Forming	18MAT31 TCFC	--
5th	18ME53 Dynamics of Machinery	18ME56 Operation Management	18ME54 Turbo Machines	18ME55 Fluid Power Engineering	18ME52 Design of Machine Elements-I	18ME51 Management and Engineering Economics
7th	17ME71 Energy Engineering	17ME72 Fluid Power Systems	17ME73 Control Engineering	17ME753 Mechatronics	17ME742 Tribology	--

Coordinator HOD Dean-Academic 9/11/20 Principal 9/11/20

B. Sample Student Group allotment in the Microsoft Teams channel.

Sl. No.	Faculty Name with Designation	Student Name	Student USN	Semester/Section
1	Mr.Rohith S	PRAJWAL A S	4AD17ME053	5B
2		SHAMANTH KUMAR M	4AD17ME070	5B
3		SUHAS CHAKRAVARTHY K J	4AD17ME072	5B
4		SUKRUTH U R	4AD17ME073	5B
5		VIVEK B K	4AD17ME080	5B
6		LIKHITHA S N	4AD18ME021	5B
7		NIKHILNAG R	4AD18ME036	5B
8		PARVEEZ AHMED	4AD18ME037	5B
9		PETER A X	4AD18ME038	5B
10		PRAJWALA S M	4AD18ME039	5B
11		PRASHAL POOVAIAH K B	4AD18ME040	5B
12		PRIYANKA S V	4AD18ME041	5B
13		Rithish B	4AD18ME042	5B
14		SAIF MADEEN	4AD18ME044	5B
15		SAQLAINULLA SHARIFF	4AD18ME045	5B
16		SHASHANK P	4AD18ME046	5B
17		SREEKANTH GOWDA G P	4AD18ME048	5B
18		SRINIVAS K N	4AD18ME049	5B
19		SRUJAN R	4AD18ME050	5B
20		SUJAY N RAJ	4AD18ME052	5B
21		Syed Ibad Hussain	4AD18ME054	5B
22		VAIBHAV G JAGANNATH	4AD18ME055	5B
23		YASHWANTH KUMAR K	4AD18ME056	5B

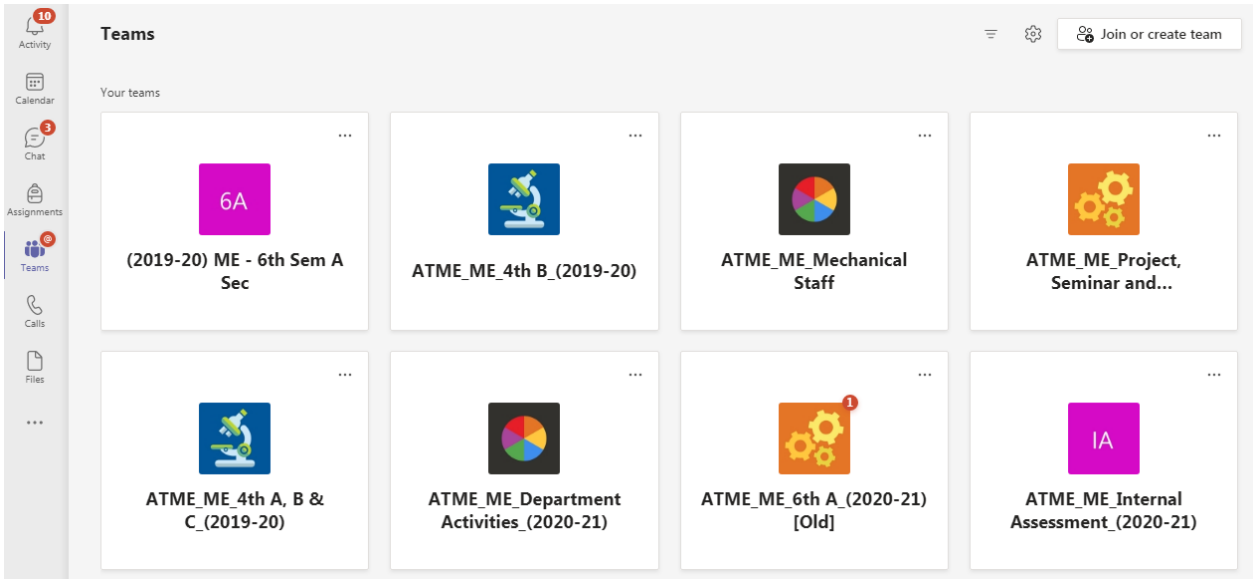
Sl. No.	Faculty Name with Desig	Student Name	Student USN	Semester/Section
1	Mr. Pavan Kumar K P	ANUSHREE A S	4AD19ME405	5B
2		ARPITHA K S	4AD19ME406	5B
3		MOHAMMED NOUMAN	4AD19ME437	5B
4		MOHAMMEDJAVEEDAHMED	4AD19ME438	5B
5		MONISH N S	4AD19ME439	5B
6		NARASIMHA S	4AD19ME440	5B
7		NAVEEN M	4AD19ME441	5B
8		NAVEENA H M	4AD19ME442	5B
9		NITHIN D R	4AD19ME443	5B
10		PAVAN KUMAR B	4AD19ME444	5B
11		PAVITHRA B J	4AD19ME445	5B
12		PRADVIN S G	4AD19ME446	5B
13		PRAJWAL R	4AD19ME447	5B
14		PRAJWAL V	4AD19ME448	5B
15		PRARTHANA B	4AD19ME449	5B
16		PRASHANTHA H J	4AD19ME450	5B
17		PRATHAPA K M	4AD19ME451	5B
18		PRAVEEN B M	4AD19ME452	5B
19		PRAVEEN S K	4AD19ME453	5B
20		RAJASHEKARA K P	4AD19ME454	5B
21		RAKESH B R	4AD19ME455	5B
22		RAKSHITH M S	4AD19ME456	5B
23		SACHIN S	4AD19ME458	5B

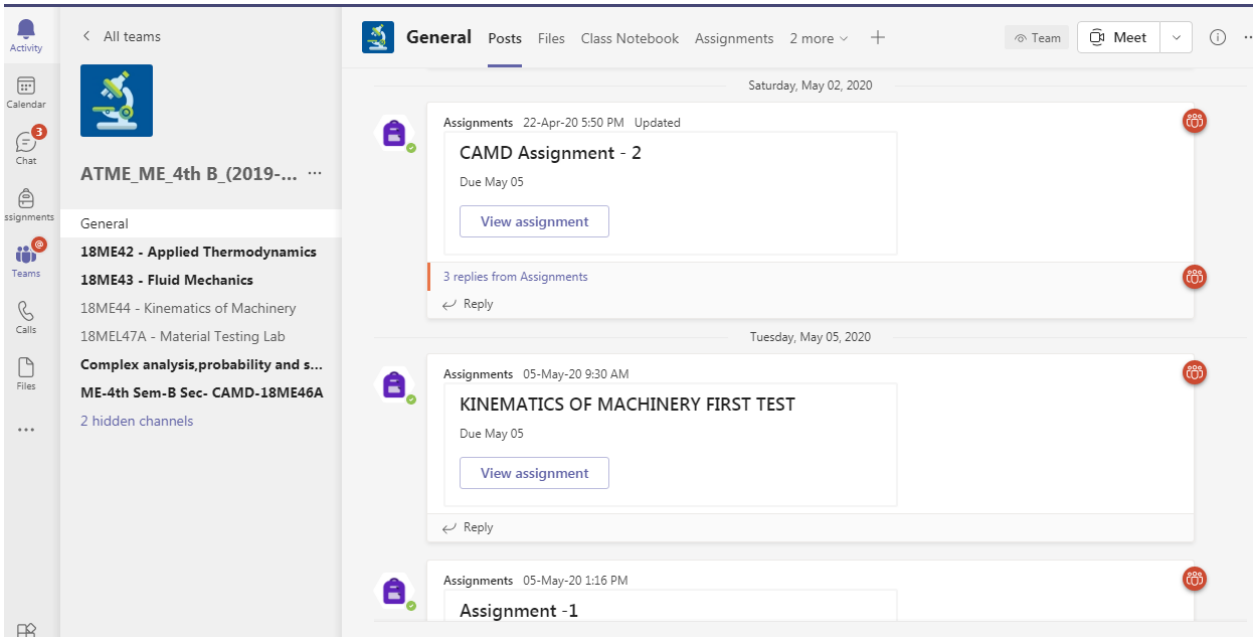
Department of Mechanical Engineering

Sl. No.	Faculty Name with Design	Student Name	Student USN	Semester/Section
1	Mr. Yashwanth N	SACHIN S P	4AD19ME459	5B
2		SAHANA S	4AD19ME460	5B
3		SANJAY M	4AD19ME461	5B
4		SHARATH M	4AD19ME462	5B
5		SHARATHKUMAR K S	4AD19ME463	5B
6		SHILPA N	4AD19ME464	5B
7		SHIVAPRASAD K S	4AD19ME465	5B
8		SHREEJITH K M	4AD19ME466	5B
9		SRIKANTH J	4AD19ME467	5B
10		SRINIVAS S PAVAR	4AD19ME468	5B
11		SUDEEP D N	4AD19ME469	5B
12		SUDHARSHAN B R	4AD19ME470	5B
13		SUHAS RAO N S	4AD19ME471	5B
14		SUJAN UDUPA B P	4AD19ME472	5B
15		SUNIL J S	4AD19ME473	5B
16		SWATHI M V	4AD19ME474	5B
17		SYED MOHAMMED YOUNUS	4AD19ME475	5B
18		VIJAY KUMAR	4AD19ME476	5B
19		VISHNU PRASAD S	4AD19ME477	5B
20		YASHAS M	4AD19ME478	5B
21		sushan	4ad17me074	5B
22		chinthan v	4ad17me407	5B
23		preetham candy paul	4ad17me059	5B

HOD

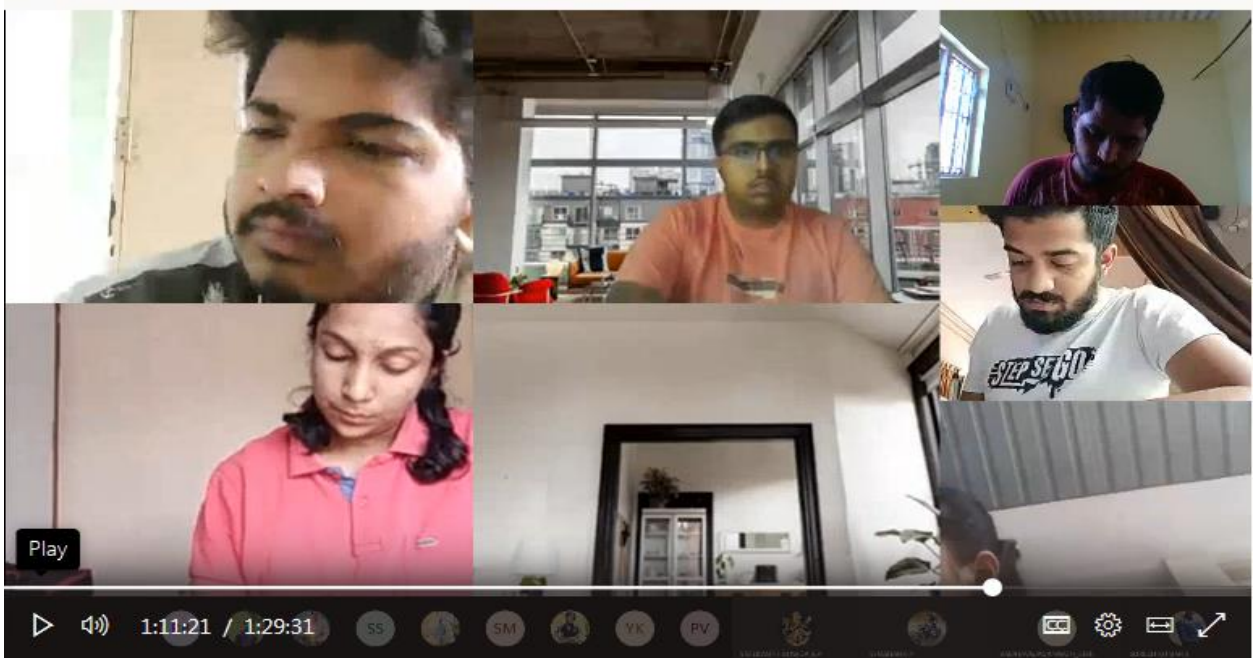
D.Test Paper deployment and submission form in MS Teams





HOD

E.Test Recording Screenshots



HOD

ASSIGNMENT

ODD Semester: 2019-2020

The Department follows the following components for the evaluation of **Assignments (10 Marks/Course).**

1. Solving the VTU question papers and other important questions.
2. Quiz on the topics relevant to the syllabus.

Based on the above components assignment marks will be finalized.

Even Semester: 2019-2020

In the Even semester revision in the policy was adopted. Any two components below can be considered for 6 Marks. Remaining 4 marks is assigned for skill enhancement through MOOC Certification.

1. Solving the VTU question papers and other important questions.

2. Quiz on the topics relevant to the syllabus.

MOOC Certification

- For registration of the course (Weightage of 2 Marks)
- Completion of the course (Weightage of 2 Marks)

Quiz on the topics relevant to the syllabus

Course: Fluid Power System
Course Code: 15ME72

Sample Quiz

Results Detail

Device ID	Student name	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total Points		Score
Answer Key		A	D	C	C	A	C	C	A	D	B	10.00		100.00%
4AD18ME020	LEELENDRA KUMAR H	A	D	C	C	A	A	B	A	D	B	8.00		80.00%
4AD19ME400	ABDUL KHAYAM ALI	A	D	C	C	B	C	C	A	C	A	7.00		70.00%
4AD19ME401	ABHISHEK J K	A	D	C	D	A	C	C	A	C	A	7.00		70.00%
4AD19ME402	ABHISHEK M U	A	D	A	C	A	A	C	A	A	B	7.00		70.00%
4AD19ME403	ABHISHEKGOWDA C A	A	A	C	C	A	A	C	A	D	B	8.00		80.00%
4AD19ME404	AKSHATH L	B	D	C	C	A	A	C	A	D	B	7.00		80.00%
4AD19ME407	ARUNA A	A	A	D	C	A	A	C	A	D	B	7.00		70.00%
4AD19ME408	ASHLESH KUMAR M	A	D	C	C	A	C	C	A	D	B	8.00		80.00%
4AD19ME409	AVINASH P	A	C	C	C	A	C	B	A	D	A	7.00		70.00%
4AD19ME410	BHARATH S M	A	A	A	C	A	C	C	A	C	B	7.00		70.00%
4AD19ME411	CHANDAN G Y	A	B	A	C	A	C	C	A	A	B	7.00		70.00%
4AD19ME412	CHANDAN M	A	D	B	C	A	C	C	A	D	A	8.00		80.00%
4AD19ME413	CHANDAN N	A	B	A	C	A	C	C	A	A	A	6.00		60.00%
4AD19ME414	CHANDRASHEKAR M	A	-	B	C	A	C	C	A	A	A	6.00		60.00%
4AD19ME415	CHETHAN S	A	A	B	C	A	C	C	A	A	A	6.00		60.00%
4AD19ME416	DHANANJAYAKUMARA D R	A	A	C	C	B	C	C	A	D	B	8.00		80.00%
4AD19ME417	FAZIL AHMED	A	A	A	C	A	C	C	A	D	D	7.00		70.00%
4AD19ME418	GAJENDRA T S	C	B	C	C	A	C	B	A	B	B	7.00		70.00%
4AD19ME419	GOVINDARAJU V	A	A	A	C	B	A	C	A	D	B	8.00		80.00%

10/16/2019

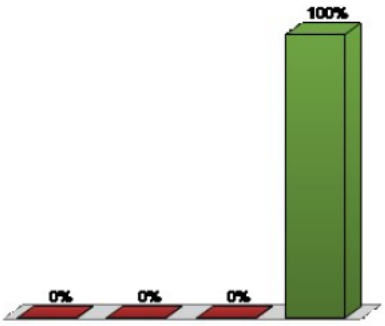
Session Name: Current Session

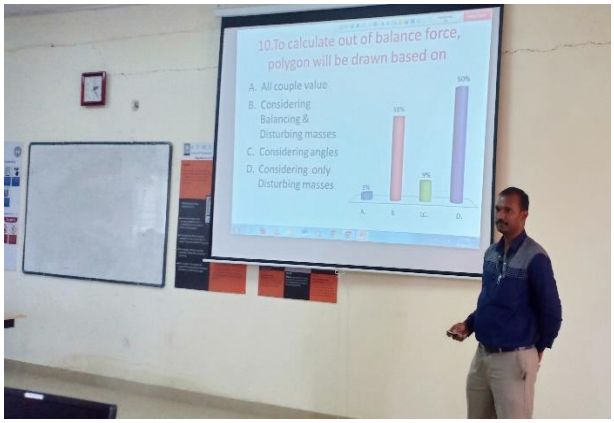
Date Created: 10/16/2019 10:20:32 AM **Active Participants:** 57 of 57
Average Score: 67.54% **Questions:** 20

Results by Question

1. 1) Fluid Power deals with (Multiple Choice)

	Responses	
	Percent	Count
Generation of Power	0%	0
Control of Power	0%	0
Transmission of Power	0%	0
All of the above *(c)*	100%	57
Totals	**100%**	**57**

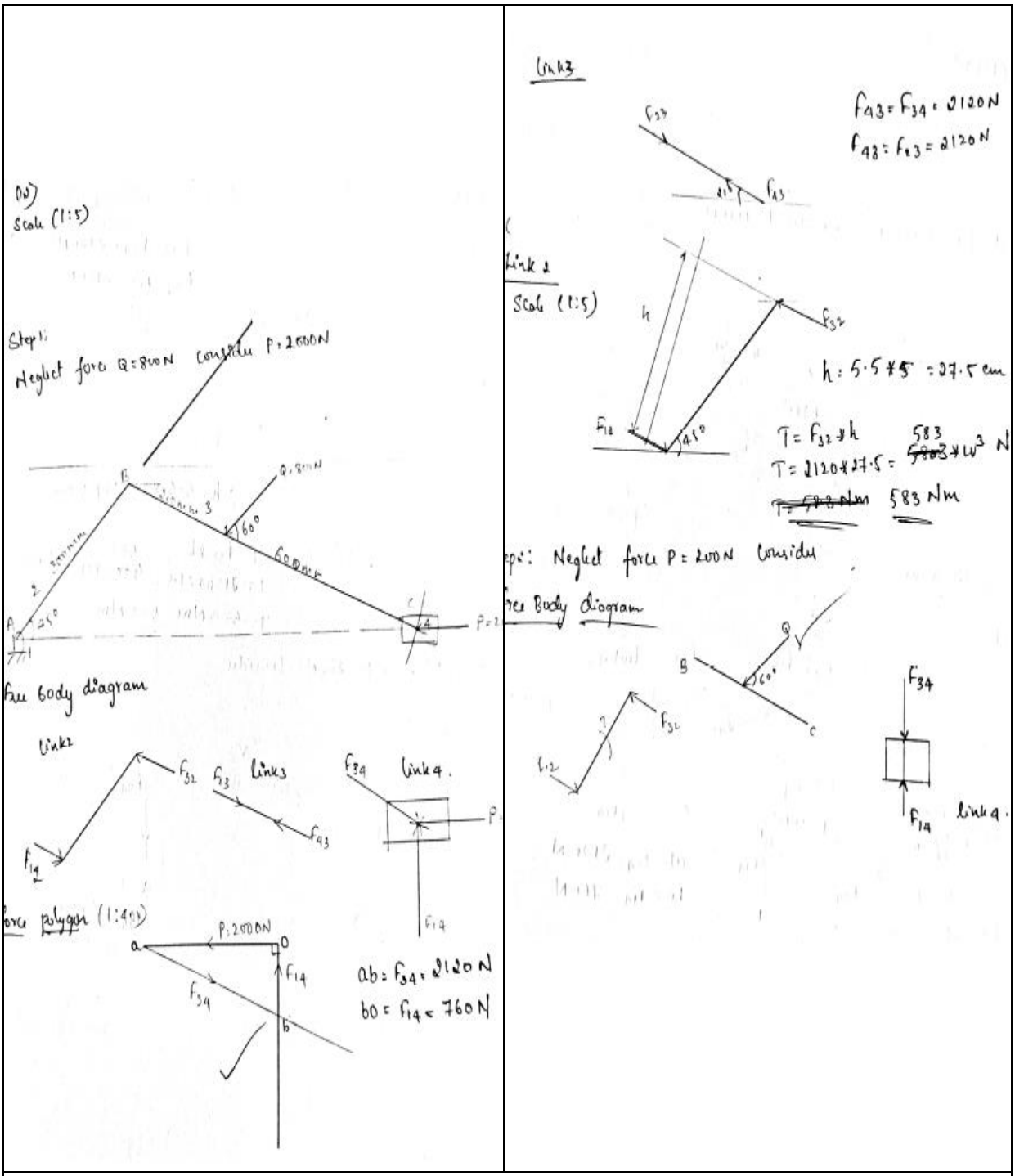




Sample screenshot

HOD

Solving the VTU question papers and other important questions



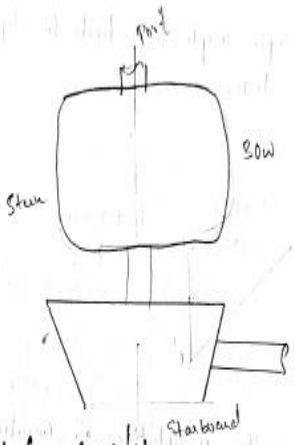
Sample Assignment

(b) Effect of gyroscopic couple on naval ship

(a) Steering
(b) pitching
(c) Rolling

Steering

Case i:



When Viewed from rear / stern

front end of the ship is called Bow
rear end of the ship is called stern
Right side of the ship is called starboard
Left side of the ship is called port.

Case i'

When Viewed from rear and ship is ~~not~~ taking turn, the engine propeller is rotating in clock wise

Effect of gyroscopic couple will tends to raise the bow and dips the stern.

Case 4

When engine propeller is rotating in Counter Clock wise and the ship take right turn when Viewed from rear

Effect of gyroscopic couple will tends to raise the stern and dips the Bow.

Pitching

The movement of ship either ~~upon~~ upwards or downwards is called pitching.

Case i

If the ship moves upward when Viewed from rear ~~the prop~~ the effect of gyroscopic couple in pitching will tends to move the Starboard ~~towards~~ or right ~~position~~ side propeller towards

↑ reactive gyroscopic couple

Case ii

If the ship moves downward when Viewed from rear the effect of gyroscopic couple in pitching will Tends to move the propeller ~~to~~ towards port

10/10

Sample Assignment

HOD

Student MOOC Details - Mechanical Department

Sl.No	Student Name	USN	Course Enrolled	MOOC Platform
1	Aditya C	4AD17ME003	Advanced Machining Processes	Swayam NPTEL
2	Aditya C	4AD17ME003	Introduction to Aeronautical Engineering	edX
3	Anil Kumar B M	4ad17ME012	Fluid Machines	Swayam NPTEL
4	Harshavardhan N	4AD17ME020	Fluid Machines	Swayam NPTEL
5	MANOJ M	4AD17ME033	Fluid Machines	Swayam NPTEL
6	Prajwal A S	4AD17ME053	Advanced Machining Processes	Swayam NPTEL
7	Prajwal A S	4AD17ME053	Introduction to Aeronautical Engineering	edX
8	Shamanth Kumar M	4AD17ME070	Robotics	Swayam NPTEL
9	Azmathulla Khan	4AD18ME003	Advanced Machining Processes	Swayam NPTEL
10	Bharath kumar M	4AD18ME004	Material Science and Engineering	Swayam NPTEL
11	BHUVANESH M	4AD18ME005	Introduction to Aeronautical Engineering	edX
12	BHUVANESH M	4AD18ME005	Advanced Machining Processes	Swayam NPTEL
13	GOWTHAM G	4AD18ME010	Robotics	Swayam NPTEL
14	Kishor Y N	4AD18ME019	Robotics	Swayam NPTEL
15	LEELENDRA KUMAR	4AD18ME020	Introduction to Matlab	edX
16	Likhitha N S	4AD18ME021	Advanced Machining Processess	Swayam NPTEL
17	Madesh C M	4AD18ME022	Fluid Machines	Swayam NPTEL
18	Manoj C	4AD18ME023	Engineering Drawing and Computer Graphics	Swayam NPTEL
19	Manoj Kumar N	4AD18ME024	Robotics	Swayam NPTEL
20	Md Afan Jaleel	4AD18ME025	Advanced Machining Processess	Swayam NPTEL
21	Md Alfaz V I	4AD18ME026	Advanced Machining Processess	Swayam NPTEL
22	Md Jeelani H	4AD18ME027	Advanced Machining Processess	Swayam NPTEL
23	Md Naihan	4AD18ME028	Robotics	Swayam NPTEL
24	Md Rayan Khan	4AD18ME029	Robotics	Swayam

				NPTEL
25	Md Saqlain Ibrahim	4AD18ME030	Robotics	Swayam NPTEL
26	Nikhil Ramesh	4AD18ME035	Robotics	Swayam NPTEL
27	Nikhilnag R	4AD18ME036	Robotics	Swayam NPTEL
28	Parveez Ahmed	4AD18ME037	Engineering Drawing and Computer Graphics	Swayam NPTEL
29	Peter A X	4AD18ME038	Engineering Metrology	Swayam NPTEL
30	Prajwala S M	4AD18ME039	Introduction to Aeronautical Engineering	edX
31	Prajwala S M	4AD18ME039	Robotics	Swayam NPTEL
32	Prashal Poovaiah K B	4AD18ME040	Advanced Machining Processess	Swayam NPTEL
33	Priyanka V S	4AD18ME041	Advanced Machining Processess	Swayam NPTEL
34	Saif Madeen	4AD18ME044	Introduction to Aeronautics	edX
35	Saqlainulla shariff	4AD18ME045	Robotics	Swayam NPTEL
36	Sreekanth Gowda G P	4AD18ME048	Advanced Machining Process	Swayam NPTEL
37	Syed Ibad Hussain	4AD18ME054	Robotics	Swayam NPTEL
38	Vaibhav G Jagannath	4AD18ME055	Advanced Machining Process	Swayam NPTEL
39	Yashwanth kumar K	4AD18ME056	Advanced Machining Process	Swayam NPTEL
40	ABHISHEK P	4AD19ME001	Advanced Machining Processes	Swayam NPTEL
41	AISHWARYA S G	4AD19ME002	Robotics	Swayam NPTEL
42	AMAAN AFSAL	4AD19ME003	Robotics	Swayam NPTEL
43	GOVINDARAJ G	4AD19ME008	Robotics	Swayam NPTEL
44	HARISH N S	4AD19ME010	Robotics	Swayam NPTEL
45	KUSHAL SAGAR D	4AD19ME012	Engineering Drawing and Computer Graphics	Swayam NPTEL
46	MANOJ N PATEL	4AD19ME013	Robotics	Swayam NPTEL
47	MOHAMMED DAWOOD	4AD19ME016	Introduction to Aeronautical Engineering	edX
48	MUHAMMAD RAASHID	4AD19ME018	Introduction to Aeronautical Engineering	edX
49	NAVEEN RAJU P	4AD19ME021	Introduction to Aeronautical Engineering	edX
50	PADMANABHA K	4AD19ME022	Fundamentals of Manufacturing	Swayam NPTEL
51	PRAJWAL M Y	4AD19ME023	Robotics	Swayam

				NPTEL
52	PRAJWAL S	4AD19ME024	Introduction to Aeronautical Engineering	edX
53	PUNITH S	4AD19ME025	Introduction to Aeronautical Engineering	edX
54	RAJENDRA N	4AD19ME026	Robotics	Swayam NPTEL
55	RICHARD RAJ	4AD19ME027	Introduction to Aeronautical Engineering	edX
56	SHASHANK M	4AD19ME028	Introduction to Aeronautical Engineering	edX
57	SHIVALI S	4AD19ME029	Robotics Foundations I - Robot modelling	edX
58	SHREYAS K G	4AD19ME030	Engineering drawing & Computer graphics	Swayam NPTEL
59	SYED SAJJAD HUSSAIN	4AD19ME031	Introduction to Aeronautical Engineering	edX
60	VARSHITH S	4AD19ME033	Introduction to Aeronautical Engineering	edX
61	ABHISHEKGOWDA C A	4AD19ME403	Robotics	Swayam NPTEL
62	AKSHATH L	4AD19ME404	Advanced Machining Processes	Swayam NPTEL
63	ARUNA A	4AD19ME407	Advanced Machining Processes	Swayam NPTEL
64	AVINASH P	4AD19ME409	Robotics	Swayam NPTEL
65	CHANDAN M	4AD19ME412	Robotics foundations 1	edX
66	CHANDRASHEKAR M	4AD19ME414	Advanced Machining Processes	Swayam NPTEL
67	DHANANJAYAKUMARA D R	4AD19ME416	Thermodynamics	edX
68	FAZIL AHMED	4AD19ME417	Introduction to Matlab	edX
69	GAJENDRA T S	4AD19ME418	Introduction to Matlab	edX
70	GOVINDARAJU V	4AD19ME419	Introduction to Matlab	edX
71	JASWANTH S	4AD19ME420	Introduction to Matlab	edX
72	JAYANTH H I	4AD19ME421	Introduction to Matlab	edX
73	JAYANTH H R	4AD19ME422	Introduction to Matlab	edX
74	KARTHIK M	4AD19ME423	Introduction to Matlab	edX
75	KARTHIKA P	4AD19ME424	Introduction to Matlab	edX
76	KIRAN S R	4AD19ME425	Introduction to Matlab	edX
77	KIRANKUMAR S	4AD19ME426	Introduction to Matlab	edX
78	KISHORE R	4AD19ME427	Introduction to Matlab	edX
79	M C KARTHIK	4AD19ME428	Introduction to Matlab	edX
80	MADAN M N	4AD19ME429	Introduction to Matlab	edX
81	MADHUCHANDAN S	4AD19ME430	Introduction to Matlab	edX
82	MAHADEV D C	4AD19ME431	Introduction to Matlab	edX
83	MAHESH N	4AD19ME432	Introduction to Matlab	edX
84	MALLESH M	4AD19ME433	Introduction to Matlab	edX
85	MANOJ S V	4AD19ME434	Introduction to Matlab	edX

86	MANOJKUMAR S G	4AD19ME435	Introduction to Matlab	edX
87	MANOJKUMARA S L,	4AD19ME436 ,	Introduction to Matlab	edX
88	Md Nouman	4AD19ME437	Fundamentals of Manufacturing Process	Swayam NPTEL
89	Md Javeed Ahmed	4AD19ME438	Robotics	Swayam NPTEL
90	MONISH N S	4AD19ME439	Robotics	Swayam NPTEL
91	NARASIMHA S	4AD19ME440	Engineering Drawing and Computer graphics	Swayam NPTEL
92	NAVEEN M	4AD19ME441	Mechanical Behavior of material	edX
93	NAVEENA H M	4AD19ME442	Robotics	Swayam NPTEL
94	NITHIN D R	4AD19ME443	Robotics	Swayam NPTEL
95	PAVAN KUMAR B	4AD19ME444	Robotics	Swayam NPTEL
96	PAVITHRA B J	4AD19ME445	Robotics	Swayam NPTEL
97	PRADVIN S G	4AD19ME446	Introduction to Areonautical Engineering	edX
98	Prajwal R	4AD19ME447	Manufacturing Systems Technology I & II	edX
99	Prarthana Gowda	4AD19ME449	Advanced Machining Processes	Swayam NPTEL
100	Prashantha H J	4AD19ME450	Robotics	Swayam NPTEL
101	Praveen S K	4AD19ME453	Robotics	Swayam NPTEL
102	Rajashekara K P	4AD19ME454	Robotics	Swayam NPTEL
103	Rakesh B R	4AD19ME455	Mechanical Behaviour of Materials	edX
104	Rakshith M S	4AD19ME456	Robotics	Swayam NPTEL
105	Rakshith M S	4AD19ME456	Introduction to Aeronautical Engineering	edX
106	Sachin S	4AD19ME458	Mechanical Behaviour of Materials	edX
107	Sahana S	4AD19ME460	Advanced Machining Processes	Swayam NPTEL
108	Sanjay M Gowda	4AD19ME461	Fundamentals of Manufacturing Processes	Swayam NPTEL
109	Sharath M	4AD19ME462	Robotics	Swayam NPTEL
110	Sharath Kumar K S	4AD19ME463	Robotics	Swayam NPTEL
111	Shilpa N	4AD19ME464	Robotics	Swayam NPTEL
112	Shiva Prasad K S	4AD19ME465	Mechanical Behaviour of Materials	edX
113	Shreejith K M	4AD19ME466	Introduction to Aeronautical	edX

			Engineering	
114	Sreejith	4AD19ME466	Introduction to Areonautical Engineering	edX
115	SRIKANTH J	4AD19ME467	Powder Metalurgy	Swayam NPTEL
116	SUDEEP D N	4AD19ME469	Robotics Foundation I - Robot modelling	edX
117	SUDEEP D N	4AD19ME469	Fundamentals of Manufacturing Process	Swayam NPTEL
118	SUDHARSHAN B R	4AD19ME470	Robotics Foundation I - Robot modelling	edX
119	SUDHARSHAN B R	4AD19ME470	Fundamentals of Manufacturing Process	Swayam NPTEL
120	Suhas Rao N S	4AD19ME471	Mechanical Behaviour of Materials	edX
121	SUHAS RAO N S	4AD19ME471	Mechanical Behavior of material	edX
122	SUJAN UDUPA B P	4AD19ME472	Robotics Foundation I - Robot modelling	edX
123	SUNIL J S	4AD19ME473	Mechanical Behavior of material	edX
124	SWATHI M V	4AD19ME474	Product Design and development	edX
125	SYED MOHAMMED YOUNUS	4AD19ME475	Fundamentals of Manufacturing Process	Swayam NPTEL
126	VIJAY KUMAR	4AD19ME476	Advanced Machining Process	Swayam NPTEL
127	VISHNU PRASAD S	4AD19ME477	Mechanical Behavior of material	edX
128	YASHAS M	4AD19ME478	Mechanical Behavior of material	edX

HOD

Academic Calendar

ATME COLLEGE OF ENGINEERING, MYSURU

Academic Calendar (EVEN SEMESTER, 2019-20)

WEEK	MONTH	SUN	MON	TUE	WED	THU	FRI	SAT	HOLIDAY (H)	COLLEGE EVENTS
1	JANUARY				1	2	3	4		
2		5	6	7	8	9	10	11		
3		12	13	14	15	16	17	18	MAKARA SANKRANTHI	
4		19	20	21	22	23	24	25		
5		26	27	28	29	30	31		REPUBLIC DAY	Training the Trainer Program
5	FEBRUARY							1		
6		2	3	4	5	6	7	8		
7		9	10	11	12	13	14	15		COMMENCEMENT OF EVEN SEMESTER
8		16	17	18	19	20	21	22	MAHA SHIVARATHRI	Alumni Day
9		23	24	25	26	27	28	29		ATMEYA-2020
10	MARCH	1	2	3	4	5	6	7		
11		8	9	10	11	12	13	14		International Women's Day Personality Enhancement Training for 4th Sem Students
12		15	16	17	18	19	20	21		IA-1
13		22	23	24	25	26	27	28	UGADI	First PTM
14		29	30	31						

Dr. L Basavaraj

ATME COLLEGE OF ENGINEERING, MYSURU

Academic Calendar (EVEN SEMESTER, 2019-20)

WEEK	MONTH	SUN	MON	TUE	WED	THU	FRI	SAT	HOLIDAY (H)	COLLEGE EVENTS
14	APRIL				1	2	3	4		
15		5	6	7	8	9	10	11	MAHAVEERJAYANTHI GOOD FRIDAY	ICRTST-2020
16		12	13	14	15	16	17	18	DR. AMBEDKAR JAYANTHI	IA Test II
17		19	20	21	22	23	24	25		ATMEYA
18		26	27	28	29	30			BASAVA JAYANTHI	Second PTM
18	MAY						1	2	MAY DAY	
19		3	4	5	6	7	8	9		
20		10	11	12	13	14	15	16		
21		17	18	19	20	21	22	23		IA Test III
22		24	25	26	27	28	29	30	IDUL FITR	Lab Test Week
23		31								
23	JUNE		1	2	3	4	5	6		Last Working Day
24		7	8	9	10	11	12	13		Practical Examination Schedule
25		14	15	16	17	18	19	20		Commencement of Theory Examination, II Sem till 4th July 2020, Higher Semesters till 20th July 2020 Graduation Day
26		21	22	23	24	25	26	27		
27		28	29	30					Non Working Saturdays	The commencement of Odd Semester is from 27th July 2020

* Weekly Mentoring as per time table.
* Attendance will be regulary sent to parents through SMS
PTM dates for higher sem left to the description of HoDs.

Sd-
Dr. L Basavaraj
Principal

Sample Test Process

IA Process

Timetable

Department of Basic Sciences and Humanities

Internal Assessment Timetable

First Semester 2019-20

Third Internal Assessment Time Table

Date	Time	Physics Cycle	Chemistry Cycle
13-12-2019 Friday	9:30 am to 11:00 am	18CIV14	18ELN14
	3:00 pm to 4:30 pm	18MAT11	18MAT11
14-12-2019 Saturday	9:30 am to 11:00 am	18PHY12	18CHE12
	3:00 pm to 4:30 pm	18EGDL15	18CPS13
16-12-2019 Monday	9:30 am to 11:00 am	18ELE13	18ME15
	12.00 pm to 1:30 pm	18EGH18	18EGH18

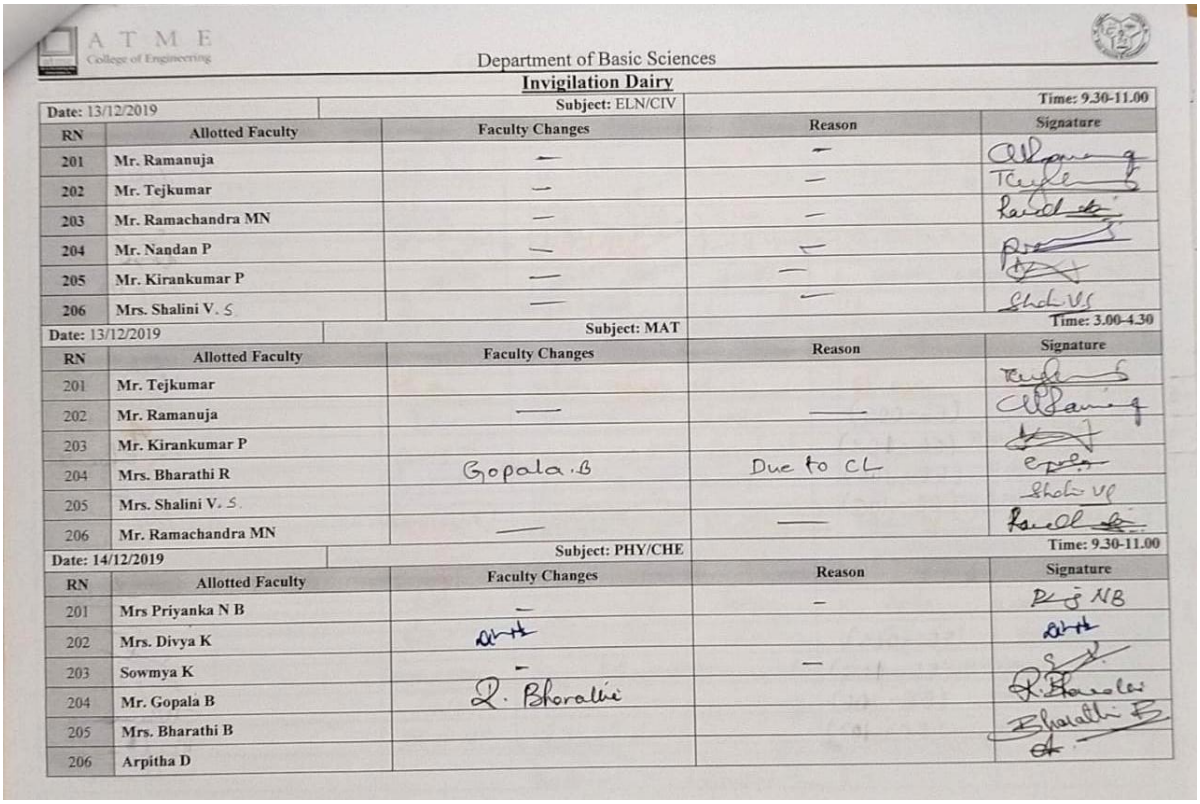
Note:

- Student should **attend all Internal Tests compulsorily.**
- Student has to report in the examination hall **before 10 min** of the commencement of the test.
- Student should be **present in the examination hall for at least *One hour* after the test started.**

Coordinator

PRINCIPAL
ATME College of Engineering
13th KM, Mysuru-Kanakapura-Bangalore Road
Mellahalli, Mysuru-570028

IA invigilation dairy

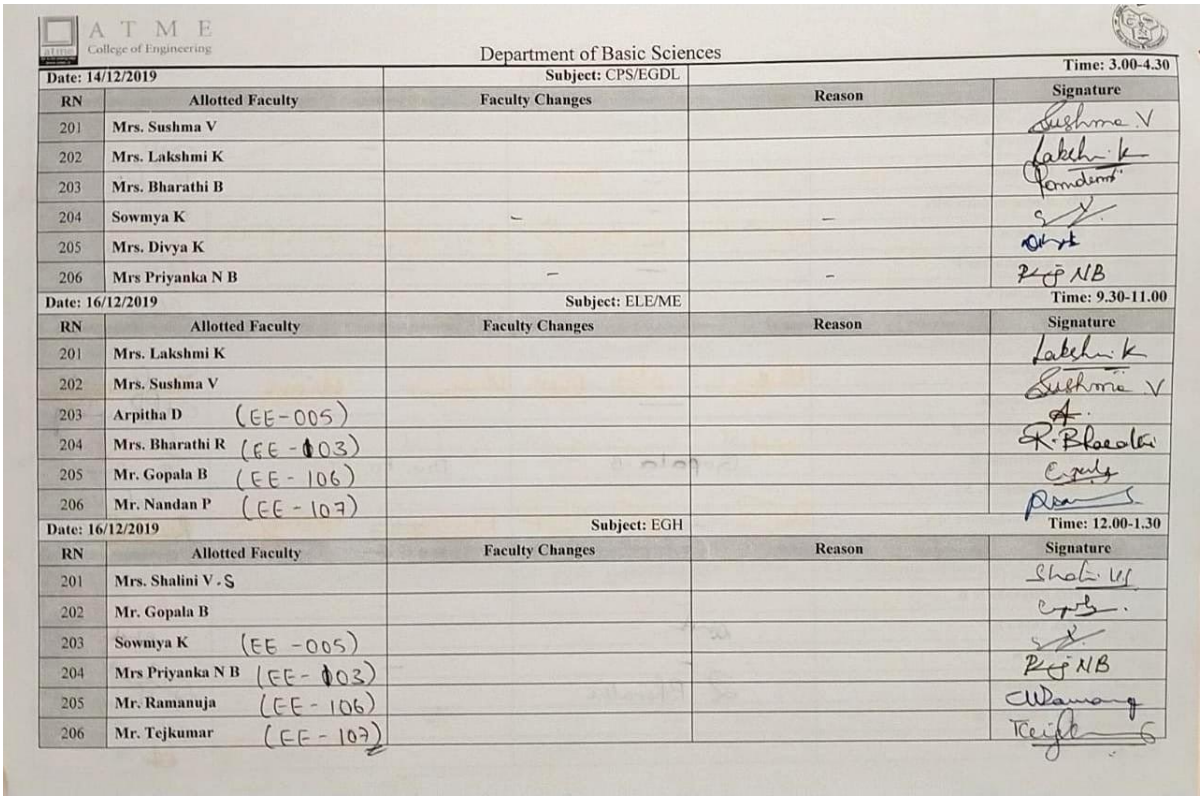


A T M E College of Engineering

Department of Basic Sciences

Invigilation Dairy

Date: 13/12/2019		Subject: ELN/CIV		Time: 9.30-11.00
RN	Allotted Faculty	Faculty Changes	Reason	Signature
201	Mr. Ramanuja	—	—	
202	Mr. Tejkumar	—	—	
203	Mr. Ramachandra MN	—	—	
204	Mr. Nandan P	—	—	
205	Mr. Kirankumar P	—	—	
206	Mrs. Shalini V. S	—	—	
Date: 13/12/2019		Subject: MAT		Time: 3.00-4.30
RN	Allotted Faculty	Faculty Changes	Reason	Signature
201	Mr. Tejkumar			
202	Mr. Ramanuja	—	—	
203	Mr. Kirankumar P			
204	Mrs. Bharathi R	Gopala.B	Due to CL	
205	Mrs. Shalini V. S			
206	Mr. Ramachandra MN	—	—	
Date: 14/12/2019		Subject: PHY/CHE		Time: 9.30-11.00
RN	Allotted Faculty	Faculty Changes	Reason	Signature
201	Mrs Priyanka N B	—	—	
202	Mrs. Divya K			
203	Sowmya K	—	—	
204	Mr. Gopala B	R. Bharathi		
205	Mrs. Bharathi B			
206	Arpitha D			



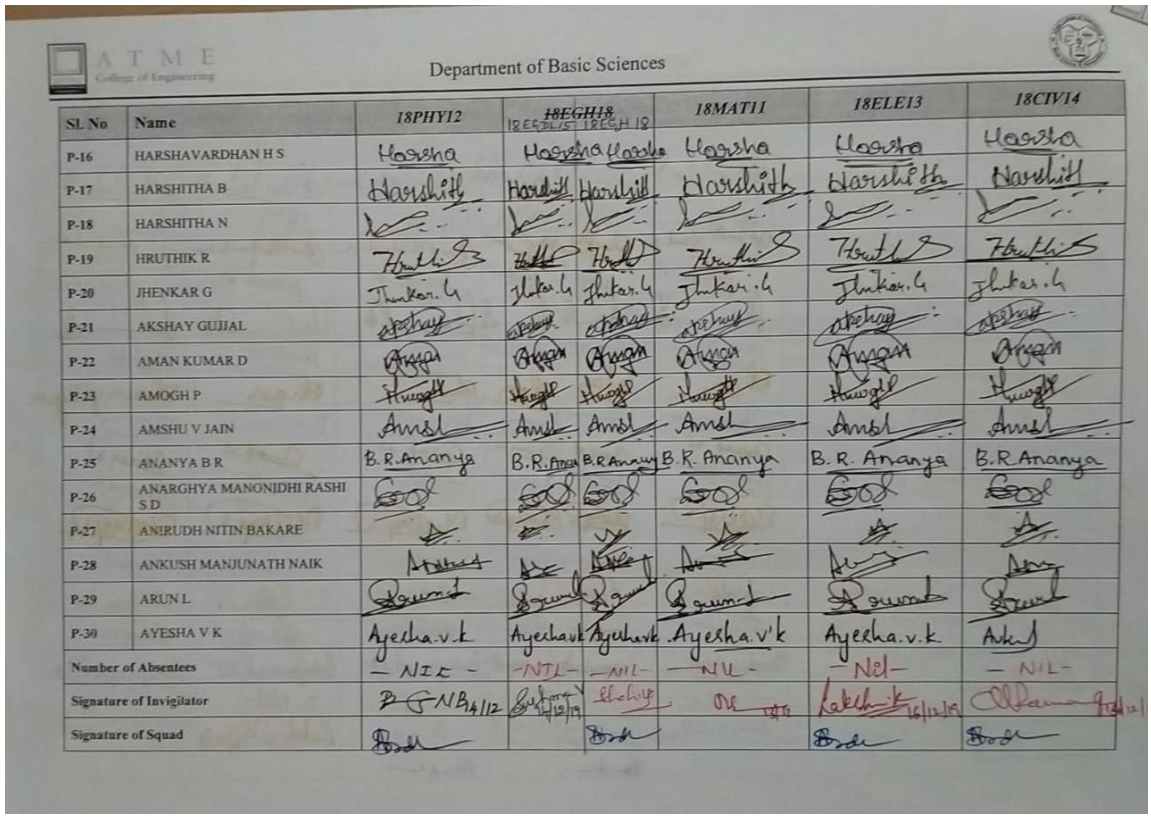
A T M E College of Engineering

Department of Basic Sciences

Date: 14/12/2019		Subject: CPS/EGDL		Time: 3.00-4.30
RN	Allotted Faculty	Faculty Changes	Reason	Signature
201	Mrs. Sushma V			
202	Mrs. Lakshmi K			
203	Mrs. Bharathi B			
204	Sowmya K	—	—	
205	Mrs. Divya K			
206	Mrs Priyanka N B	—	—	
Date: 16/12/2019		Subject: ELE/ME		Time: 9.30-11.00
RN	Allotted Faculty	Faculty Changes	Reason	Signature
201	Mrs. Lakshmi K			
202	Mrs. Sushma V			
203	Arpitha D (EE-005)			
204	Mrs. Bharathi R (EE-103)			
205	Mr. Gopala B (EE-106)			
206	Mr. Nandan P (EE-107)			
Date: 16/12/2019		Subject: EGH		Time: 12.00-1.30
RN	Allotted Faculty	Faculty Changes	Reason	Signature
201	Mrs. Shalini V.S			
202	Mr. Gopala B			
203	Sowmya K (EE-005)			
204	Mrs Priyanka N B (EE-103)			
205	Mr. Ramanuja (EE-106)			
206	Mr. Tejkumar (EE-107)			

IA Attendance Sheet

Sl. No	Name	18PHY12	~~18EGH18~~ 18EGDL15 18EGH12	18MAT11	18ELE13	18CIV14
P-1	ABHISHEK K					
P-2	AFAQ AHMED KHAN					
P-3	AMITH YASHAS R G					
P-4	ANANYA S P					
P-5	ANIGOWDA B					
P-6	ARPITHA A BELLI					
P-7	BHANUPRIYA M					
P-8	BHARGAVA P V					
P-9	CHIRAG N					
P-10	DHANUSH V					
P-11	DHEERAJ D					
P-12	DINAKAR K DEV					
P-13	DIVISHA K R					
P-14	GOVARDHAN NAYAKA S J					
P-15	GURUPRASAD K M					
Number of Absentees		- NIL -	-NIL-	-NIL-	- Nil-	-NIL-
Signature of Invigilator		P2 G NB 14/12				
Signature of Squad						



ATME College of Engineering — Department of Basic Sciences

Sl. No	Name	18PHY12	~~18EGH18~~ 18EGDL15 18EGH12	18MAT11	18ELE13	18CIV14
P-16	HARSHAVARDHAN H S					
P-17	HARSHITHA B					
P-18	HARSHITHA N					
P-19	HRUTHIK R					
P-20	JHENKAR G					
P-21	AKSHAY GUJJAL					
P-22	AMAN KUMAR D					
P-23	AMOGH P					
P-24	AMSHU V JAIN					
P-25	ANANYA B R	B.R.Ananya	B.R.Ananya	B.R.Ananya	B.R.Ananya	B.R.Ananya
P-26	ANARGHYA MANONIDHI RASHI S D					
P-27	ANIRUDH NITIN BAKARE					
P-28	ANKUSH MANJUNATH NAIK					
P-29	ARUN L					
P-30	AYESHA V K	Ayesha.v.k	Ayesha.v.k	Ayesha.v.k	Ayesha.v.k	
Number of Absentees		- NIL -	-NIL-	-NIL-	- Nil-	- NIL-
Signature of Invigilator		P2 G NB 14/12				
Signature of Squad						

Sample Question paper and Scheme

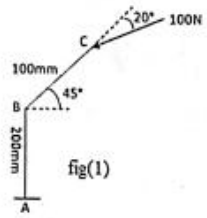
ATME College of Engineering

Department of Civil Engineering

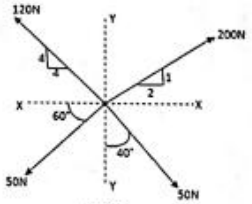
First Internal Assessment

Subject Code	:	18CIV14	Time	:	3.00 – 4.30PAM
Subject	:	Elements of Civil Engineering & Mechanics	Date	:	06.10.2019
Semester	:	I	Max. Marks	:	50

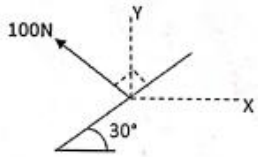
	Part – A Answer any two Questions (15 marks each)	CO's	BT Level
1a.	Explain the scope of Transportation, Geotechnical and Environmental Engineering 9M	1	2
b.	Determine the moment of 100N force acting on a rigid body ABC as shown in fig (1) about point A. 6M	3	3
2a.	State and Prove Parallelogram law of forces 7M	2	2
b.	Compute the resultant force for the system of forces shown in fig (2). 8M	2	3
3a.	Explain principle of physical independence, law of superposition and transmissibility of forces with a sketch 9M	3	2
b.	Determine the components of 100N force as shown in fig (3) wrt x and y axis 6M	2	3
	Part – B Answer all the Question (10 marks each)		
4	Find the value of resultant for the force system acting on a body OABC as shown in fig (4). Also find the position of resultant wrt point O. 10M	2	3
5	Determine the tensions in different segments of the string as shown in fig (5) using Lami's theorem. 10M	3	3



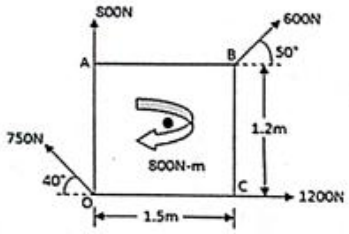
fig(1)



fig(2)



fig(3)



fig(4)

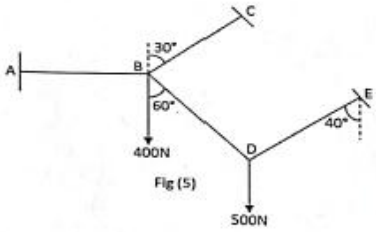


Fig (5)

Bloom's Taxonomy	
L1	Remembering
L2	Understanding
L3	Applying
L4	Analyzing
L5	Synthesizing
L6	Evaluating

COURSE OUTCOMES

After a successful completion of the course, the student will be able to:

1	Know basics of Civil Engineering, its scope of study, knowledge about Roads, Bridges and Dams
2	Comprehend the action of Forces, Moments and other loads on systems of rigid bodies;
3	Compute the reactive forces and the effects that develop as a result of the external loads;
4	Locate the Centroid and compute the Moment of Inertia of regular cross sections.
5	Express the relationship between the motion of bodies and 6. Equipped to pursue studies in allied courses in Mechanics.

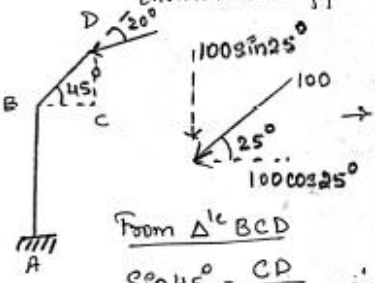
ATME College of Engineering — Department of Civil Engineering

Subject Name: Elements of Civil Engg. & Engg. Mechanics **Subject Code:** 18CIV14
Faculty Name: SRINATHSA HU **IA Number:** 1

CO1	Know basics of Civil Engineering, its scope of study, knowledge about Roads, Bridges and Dams
CO2	Comprehend the action of Forces, Moments and other loads on systems of rigid bodies;
CO3	Compute the reactive forces and the effects that develop as a result of the external loads
CO4	Locate the Centroid and compute the Moment of Inertia of regular cross sections.
CO5	Express the relationship between the motion of bodies and Equipped to pursue studies in allied courses in Mechanics.

Revised Bloom's Taxonomy Levels

L1: Remembering **L2:** Understanding **L3:** Applying **L4:** Analyzing **L5:** Synthesizing **L6:** Evaluating

No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
1a.	Scope of Transportation Engg Geotechnical Engg Environmental Engg } 3 × 3 = 9 marks	9	1	2
1b.	 → 1 mark. From Δ^{le} BCD $\sin 45^\circ = \frac{CD}{100}$ ∴ CD = 100 × sin 45° = 70.71mm $\cos 45^\circ = \frac{BC}{100}$ ∴ BC = 100 × cos 45° = 70.71mm → 3 marks Taking moment about A $M_A = (100 \times \sin 25^\circ \times 70.71) - (100 \cos 25^\circ \times 270.71)$ $= 2988.33 - 24534.65$ $= -21546.32$ N-mm → 2 marks	6	3	3

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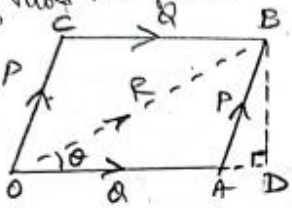
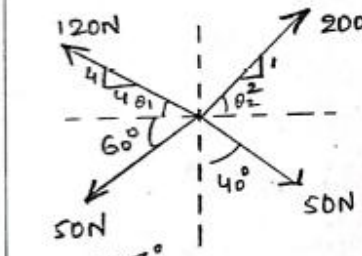
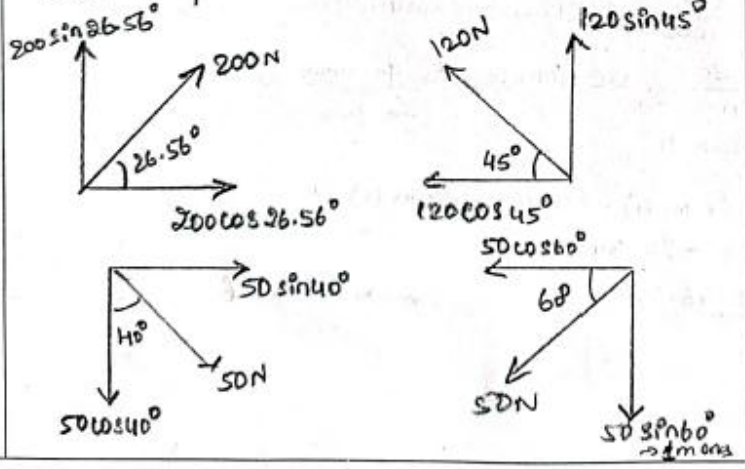
Signature of the HOD

ATME College of Engineering — Department of Civil Engineering

No.	Solution	Marks Allotted	Mapped COs	Bloom's Taxonomy level
2a.	**Parallelogram law of forces :-** **Statement :-** If two coplanar concurrent forces are acting at a point can be represented by both magnitude & direction by the sides of the parallelogram & their diagonal represents the resultant of those two forces with both magnitude & direction → 1 mark **Construction :-**  → 1 mark **Proof :-** $R = \sqrt{P^2+Q^2+2PQ\cos\theta}$ → 5 marks	7	2	2
2b.	 From fig $\theta_1 = \tan^{-1}\left(\frac{4}{4}\right) = 45^\circ$ $\theta_2 = \tan^{-1}\left(\frac{1}{2}\right) = 26.56^\circ$ → 1 mark  → 1 marks	8	2	3

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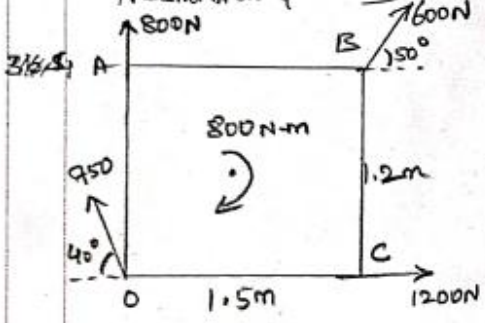
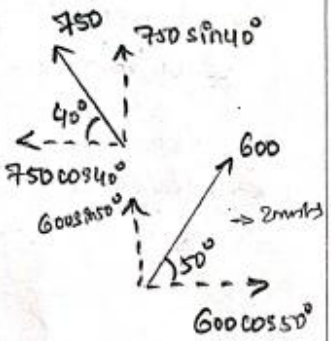
A T M E College of Engineering

Department of Civil Engineering

No.	Solution	Marks Allotted	Mapped COs	B T level
	$\Sigma H (\rightarrow +ve) = 1078.89 + 32.13 - 84.85 - 25 = 101.17 N$ $\Sigma V (\uparrow +ve) = 89.42 + 84.85 - 38.30 - 43.50 = 92.67 N$ } 4 marks $R = \sqrt{(\Sigma H)^2 + (\Sigma V)^2} = 187.19 N$ $\theta = \tan^{-1}\left(\frac{\Sigma V}{\Sigma H}\right) = \tan^{-1}\left(\frac{92.67}{101.17}\right) = 42.48^\circ$ } 2 marks			
3a.	Physical Independence law of superposition Transmissibility } Statement $3 \times 1 = 3$ marks Expln $= 3 \times 2 = 6$ marks	9	3	2
3b.	  → 2 marks $\Sigma H = 885.67 + 1200 - 574.53 = 1011.14 N$ $\Sigma V = 800 + 459.62 + 482.09 = 1741.71 N$ } 2 marks $R = \sqrt{(\Sigma H)^2 + (\Sigma V)^2} = \sqrt{(1011.14)^2 + (1741.71)^2} = 203.94 N$ → 1 mark Since ΣH and ΣV are +ve Resultant- 1st qn I quadrant $\theta = \tan^{-1}\left(\frac{\Sigma V}{\Sigma H}\right) = \tan^{-1}\left(\frac{1741.71}{1011.14}\right) = 59.86^\circ$ → 1 mark $M_{@} = -800 - (600\cos 50)(1.2) + (600\sin 50 \times 1.5)$ $= 1741.72x$ $x = -0.329 m$ → 2 marks	10	2	3

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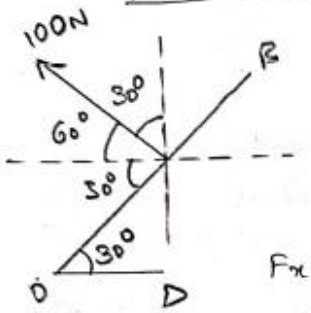
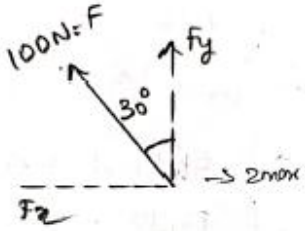
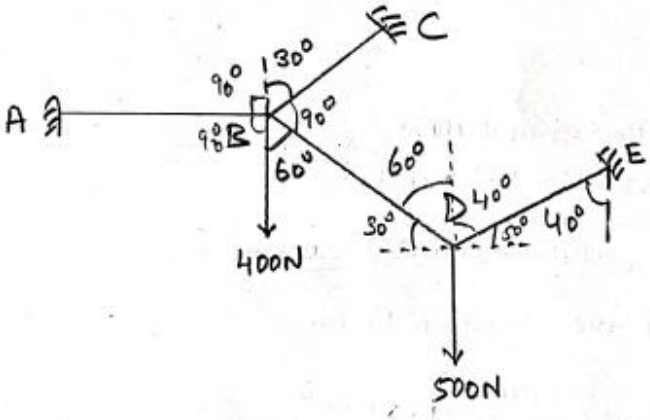
No.	Solution	Marks Allotted	Mapped COs	B T level
	$-800-(600\cos50\times1.2)+(600\sin50\times1.5)=-1011.14\times y$ $y=0.567m$ → 2marks			
3b	  → 2marks $F_x = F\cos\theta$ $= 100\cos30^\circ = 86.6N$ $F_y = F\sin\theta$ $= 100\sin30^\circ = 50N$ } 4marks	6	2	3
5.	 Applying Lami's theorem @ D $\frac{500}{\sin(100)} = \frac{TDE}{\sin(130)} = \frac{TBD}{\sin(140^\circ)}$	10	3	3

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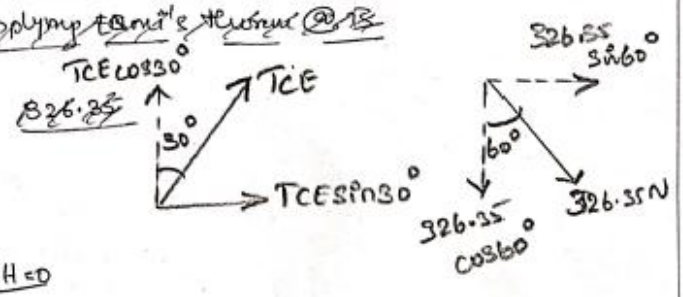
ATME College of Engineering — Department of Civil Engineering

No.	Solution	Marks Allotted	Mapped COs	B T level

$$\frac{500}{\sin 100^\circ} = \frac{T_{DE}}{\sin 120^\circ} \qquad \frac{500}{\sin 100} = \frac{T_{BD}}{\sin (140)^\circ}$$

$T_{DE} = 439.69\,N$ $\qquad$ $T_{BD} = 826.85\,N$

Applying Lami's theorem @ B



$\Sigma H = 0$

$-T_{BA} + T_{CE}\sin 30^\circ + 326.35\sin 60^\circ = 0$

$\Sigma V = 0$

$T_{CE}\cos 30^\circ - 326.35\cos 60^\circ - 400 = 0$

$T_{CE} = 650.29\,N$

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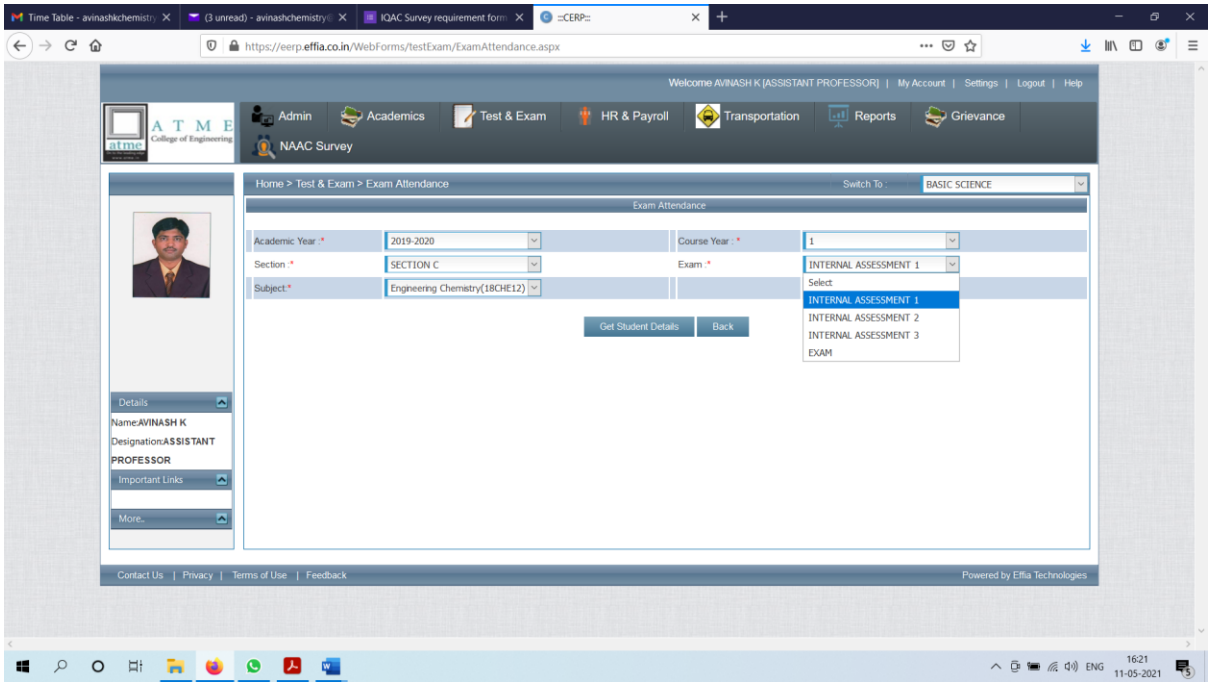
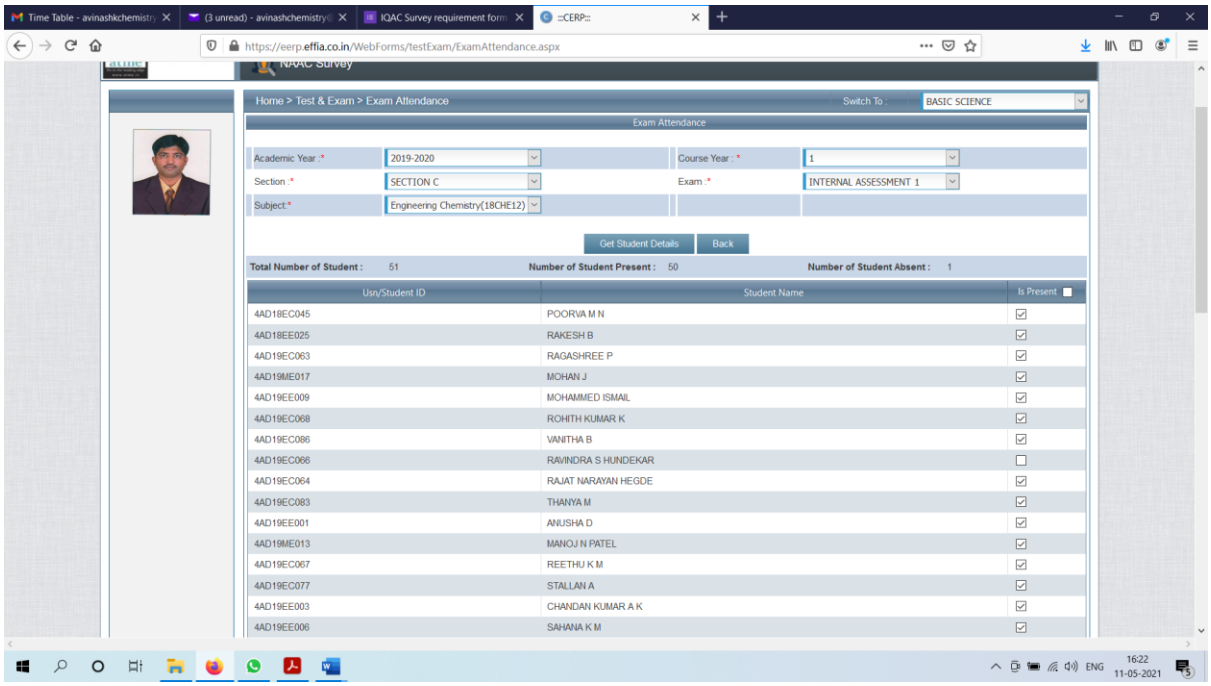
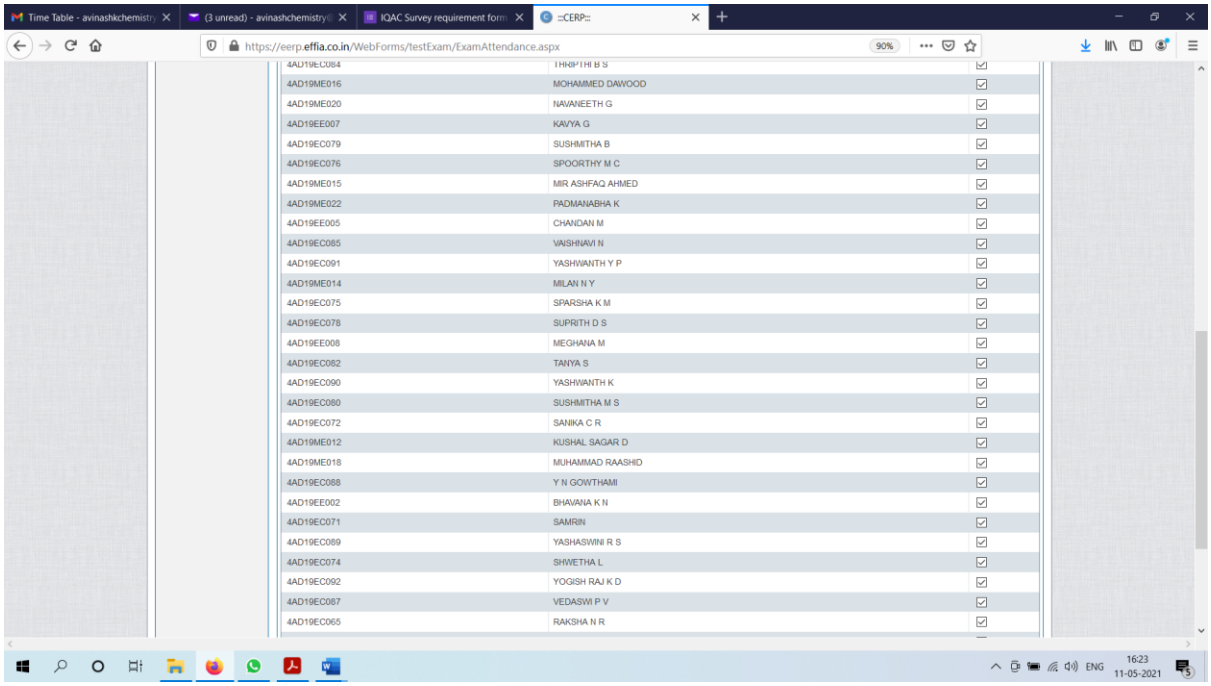
CERP Screen shots on IA Attendance and Marks entry



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4AD19ME015 MIR ASHFAQ AHMED
4AD19ME022 PADMANABHA K
4AD19EE005 CHANDAN M
4AD19EC085 VAISHNAVI N
4AD19EC091 YASHWANTH Y P
4AD19ME014 MILAN N Y
4AD19EC075 SPARSHA K M
4AD19EC078 SUPRITH D S
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4AD19EC082 TANYA S
4AD19EC090 YASHWANTH K
4AD19EC080 SUSHMITHA M S
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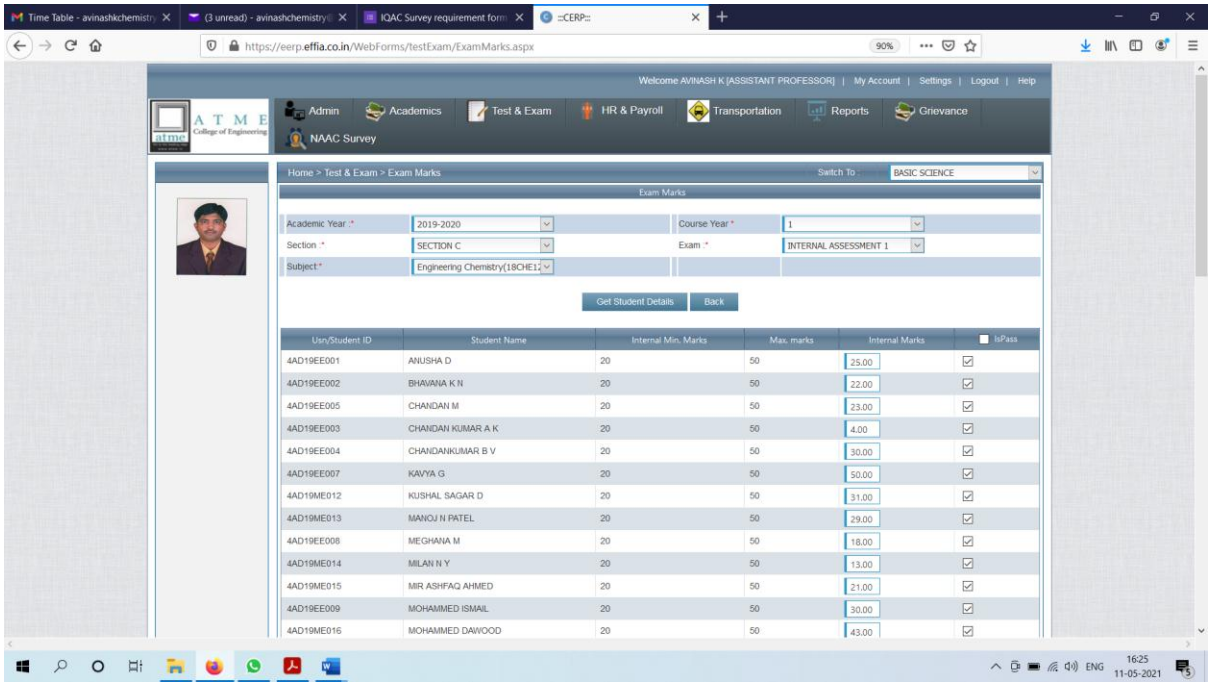
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Admin
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Test & Exam
HR & Payroll
Transportation
Reports
Grievance
NAAC Survey
Home > Test & Exam > Exam Marks
Switch To
BASIC SCIENCE
Exam Marks
Academic Year :*
2019-2020
Course Year *
1
Section :*
SECTION C
Exam :*
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Subject:*
Engineering Chemistry(18CHE1
Get Student Details
Back
Usn/Student ID
Student Name
Internal Min. Marks
Max. marks
Internal Marks
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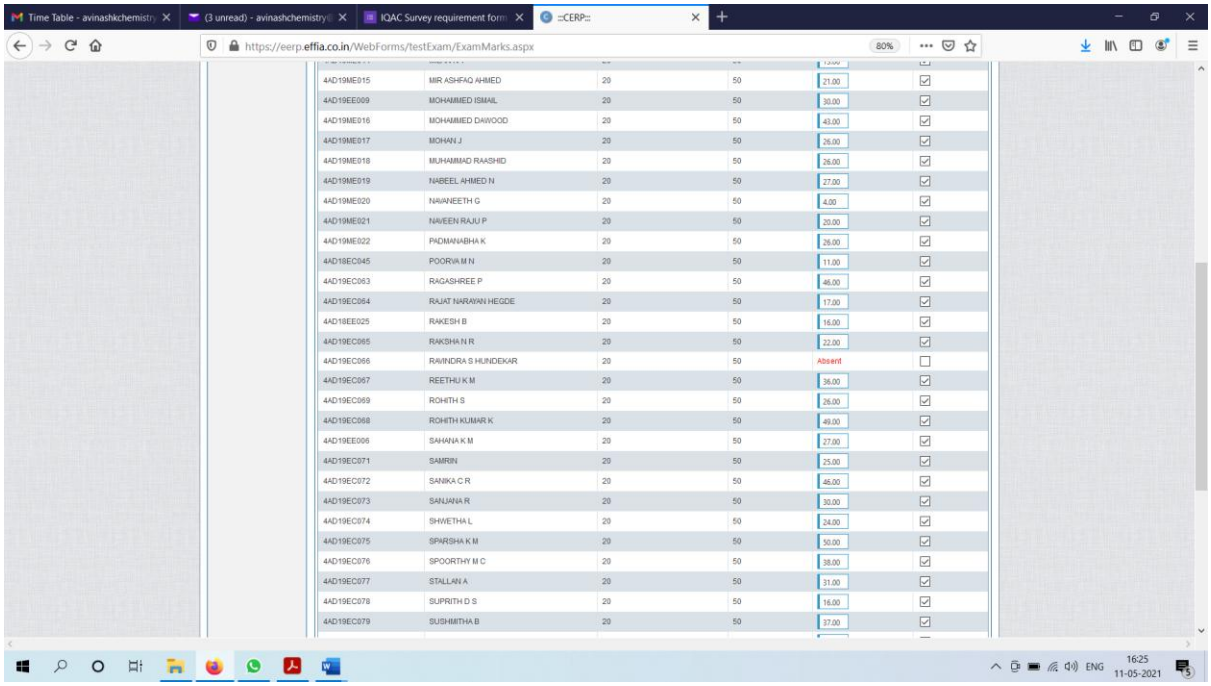
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ENG
16:25
11-05-2021

Online test process

Circular

A T M E College of Engineering
Department of Basic Sciences and Humanities

Circular

Date: 11/05/2020

Due to the COVID-19 outbreak, It is decided to conduct online first IA for students from 13/05/2020 to 18/05/2020. The mode of IA will be MCQ. The time limit will be fixed for 45 min. No excuse will be given for not attending the IA. The timetable and syllabus for this first IA is mentioned below. Class except first hour will run as per the provided timetable.

First Internal Assessment Time Table *Timings 09.30 am to 10.15 am*		
Date	**Subject**	**Syllabus**
13/05/2020	Elements in Mechanical Engineering (18EME25)	Module 2 & 3
14/05/2020	Engineering Chemistry (18CHE22)	Module 2 & 3
15/05/2020	C Programming For Problem Solving (18CPS 23)	Module 1 & 2
16/05/2020	Engineering Mathematics (18MAT21)	Module 1 & 2
18/05/2020	Electronics (18ELN24)	Module 1 & 5
Timings 03.00 pm to 3.45 am		
18/05/2020	Technical English-2 (18EGH28)	Module 2 & 3

Note the timings of English IA.

Principal

Online test paper deployment and submission form in MS Teams